

16  
REPORT

ON THE

Twenty-Fifth Exhibition

OF

AMERICAN MANUFACTURES,

HELD IN THE CITY OF PHILADELPHIA,

FROM THE 11TH TO THE 29TH DAY OF NOVEMBER, 1856.

BY

THE FRANKLIN INSTITUTE,

OF THE

State of Pennsylvania, for the Promotion of the Mechanic Arts:

---

TOGETHER WITH A

CATALOGUE OF THE ARTICLES DEPOSITED

PREVIOUS TO NOVEMBER 10, 1856.

AND

THE ADDRESS

DELIVERED AT THE CLOSE OF THE EXHIBITION,

BY

HENRY D. GILPIN, Esq.

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PHILADELPHIA:

BARNARD & JONES, PRINTERS,

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1857.

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# CATALOGUE.

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## REMARK.

Visitors will, by looking on the number on the card attached to the article exhibited, find it in this catalogue by its corresponding number.

- 1 Case Models of Tools. Made and Deposited by Heath & Parsons, Springfield, Del. Co., Pa.
- 2 Invoice, Paper Boxes. Made and Deposited by J. Pereyra, Philada.
- 3 3 Ornamental Glass Pannels and Table. Made and Deposited by G. Walters, Phila.
- 4 Invoice, Shell Combs. Made and Deposited by Henry Carlisle, Phila.
- 5 Invoice, Surgical Bandages. Made and Dep. by Dr. McClenaghan.
- 6 Map, United States. Made and Deposited by C. E. Fritz, Phila.
- 7 Invoice, Leathers. Made by Halsey & Taylor, Newark, N. J. Dep. by I. J. Barton & Co., Phila.
- 8 Invoice, Pickles and Preserved Fruits. Made and Deposited by M. B. Espy, Phila.
- 9 Map. Made and Deposited by J. Anspach, Phila.
- 10 Invoice of Furniture Polish. Made and Deposited by Saml. Rue, Phil.
- 11 Case Transparent Soap. " " A. Broeard, "
- 12 " Model Windsor Chairs. " " Danl. L. Stoud, Phila.
- 13 Invoice, Clocks. Various Makers, Deposited by Elias Smith, Phila.
- 14 1 Pyramid Ostrich feathers Brushes. Made and Deposited by L. G. Hansen & Co., Phila.
- 15 1 Chromatic Painting. Made and Dep. by Julia F. Morplus, Phila.
- 16 1 Lot Hay and Manure Forks. Made and deposited by Sheble & Lawson, Phila.
- 17 1 Case Coffee Mills. Made and Dep. by Ridgway, Selson & Ruff, Phila.
- 18 2 Bundle Binders' Boards. " " Theo. Megargee, "
- 19 1 Lot Agricultural Implements. Made and Dep. by Smith Harper, Fox Chase, Pa.
- 20 Lot Slates. Made by Lehigh Slate Co. Dep. by D. D. Jones.

- 21 Lot Telegraphic Instruments. Made by Hinds & Williams, Boston.  
Dep. G. P. Thayer.
- 22 Habilimentary Toilet. Made and Dep. by David Freed, Phila.
- 23 Roll Saddle Skirting. Made by Jacobus & Co., Newark. Dep. by  
W. Musser & Co., Phila.
- 24 Case Liquid Paste Blacking. Made and Dep. by Home & Beal, Balt.
- 25 Case Patent Knife and Scissor Sharpener. Made and Deposited by  
J. Young, Phila.
- 26 Case West Indian Tooth Powder and Wash. Made and Dep. by R. B.  
Da Costa & Son, Phila.
- 27 Piece Embroidery. Made and Deposited by Mrs. Robinson, Phila.
- 28 Card Carriage Bolts. " " Thos. J. Kelly, "
- 29 Thurst Bearing for Propeller. Made and Dep. by Geo. Parry, Phila.
- 30 Frames Specimens of Writing. " " S.H. Crittenden, "
- 31 Case of Chemicals. " " J. E. Carter, "
- 32 Mathematical Instruments. " " H. U. Poole, Potts-  
ville, Pa.
- 33 Specimens Collars. " " Tho. Fry, "
- 34 Bed Quilt. Made by Mrs. Dr. Piercell, Ohio. Dep. by J. Bush, "
- 35 Atmospheric Engine. Made and Deposited by M. N. Fredricks, "
- 36 Lot Stair Rods and Taper Holder. Made and Dep. by Willer & Moss, Phil.
- 38 Asst. Chemicals. Made and Deposited by Carter & Scattergood, Phil.
- 39 Sample Card Envelopes. " " R. T. Knight. "
- 40 Sample Loops for Harness. Made and Dep. by E. G. Chorman, "
- 41 Lot Chandler and Grocer Wicks. Made by W. Chadwick, Lower Me-  
rion. Dep. by J. D. Fisler, Phila.
- 42 Case Coconut Shell Baskets. Made and Dep. by W. Williams, Phila.
- 43 Lot Hardware. " " Justice & Steinmetz, "
- 44 2 Frames Needle Work. " " Miss M. E. Robins, "
- 45 Pair Windsor Shades. " " Martin Free, "
- 46 Frames Card Seals. " " E. F. Baton, "
- 47 Case Indian Vegetable Salve. " " Mrs. E. Cline, "
- 48 Lot Frost Proof Silver Letter. " " J. Wishart, "
- 49 2 Cases Philosophical Apparatus. " " W. H. Pile, "
- 50 4 Doz. Glass Preserving Jars. " " A. Stone & Co., "
- 51 2 Boxes Soap. " " Barry & Boyd, "
- 52 Piano Cover. " " Miss E. Isaacs, "
- 53 Piano Cover. Made by Miss Ellen Myers, New Bristol, Bucks Co.,  
Pa. Deposited by Miss A. E. Carpenter, Phila.
- 54 Lot Worsted Work. Made and Dep. by R. W. Renshaw, Phila.
- 55 2 Boxes White Water Lily. Made and Dep. by J. C. De La Cour,  
Camden, N. J.
- 56 Lot Essence Ginger. R. B. Heintzelman.
- 57 Case Thermometer. Made by L. B. Swan, Rochester, N. Y. Dep. by  
R. H. Douglass, Phila.
- 58 Lot Statuary. Made and Dep. by J. & H. Johnson, Phila.
- 59 Lot Gas Meters. " " Code, Hopper & Co., Phila.
- 60 Case Machinist Tools. Made by Darling & Schwartz, Bangor, Me.  
Dep. by Field & Hardie, Phila.

- 61 Lot Self-Generating Gas Lamps. Made and Dep. by Dr. C. A. Greene, Phila.
- 62 Case Branding Irons. Made and Dep. by John Franklin, Phila.
- 63 Case Carpenter Tools. " " Thos. L. Moss, "
- 64 1 Case Hardware. " " Charles Disston, "
- 65 1 Case Hardware. " " Henry Disston, "
- 66 Fancy Work Box. " " G. R. Vanacken, "
- 67 Case Hats and Caps. " " New Hat Co., "
- 68 Lot Ambrotypes and Daguerreotypes. Made and Dep. by H. Willard, Phila.
- 69 2 Crayons Drawing. Made and Dep. by L. Cohen, Phila.
- 70 Stitch Quilt. Made by Mary M'Clain. Dep. by R. Griffith.
- 71 Leather Work Frame. Made and Dep. by Mary Asten, Phila.
- 72 2 Drawing Locomotive. " " G. W. L. Speis, "
- 73 Papier Mache Painting. " " Frank Vincent, "
- 74 Locomotive Drawing. " " Saml. Bower, "
- 75 Case Embossed Cards. " " W. F. Schieble, "
- 76 Case Oyster Knives. " " S. P. Miller, "
- 77 Oil Painting. " " H. A. Uhle, "
- 78 Lot Perfumery, &c. " " E. M'Clain, "
- 79 3 Crayons Painting. " " R. F. Reynolds, "
- 80 3 Case Stuff Birds. " " John Krider, Jr., "
- 81 Oil Painting. " W. J. Rodger. Dep. by J. Bard, Phila.
- 82 Tin Ship Flying Yankee, " " Henry B. Butcher, Phila.
- 83 1 Ship. Jas. Smith, U. S. N. Asylum, Phila. Dep. by B. M. Toole.
- 84 Spanish Military Saddle. Francis Fox, Phila. W. S. Hansell & Son, Philada.
- 85 1 Lot Crochet Work. Miss A. B. Warrington, Camden.
- 86 Patent Crimping Machine. Geo. Fettes, Holmesburg.
- 87 Watchman's Clock. Howard & Davis, Boston. Dep. by E. Holden, Phil.
- 88 1 Hose Carriage, Pole Crab, and Plug Wrench. Young & Son, Phila.
- 89 1 Case Fancy Embroideries. Kirchner, Philada.
- 90 Pat. Bank Lock. J. M. Butterworth, Dover, N. J. James Watson, Phil.
- 91 1 Crochet Counterpane. Made and Dep. by W. Knoncke, Phila.
- 92 Maps. L. Newkirk, Philada.
- 93 Case Chemicals. H. A. Bower, Philada.
- 94 1 Case Wax Fruit Flowers. Mrs. J. Carris, Philada.
- 95 1 Crayon Drawing. Wm. R. Overman, Philada.
- 96 3 Drawings. Henry Karfering, Philada.
- 97 Show Case. D. K. & S. D. Large, do.
- 98 3 Young America Fluid Lamps. Alburger & Wood, Philada.
- 99 1 Card Brass Coeks. Morrison & Ray, Philada.
- 100 1 Case Millinery. M. Elsburg, Philada.
- 101 1 Lot Hinges. E. Woolman, Phila., John Woolman, Phila.
- 102 2 Oil Paintings. Chas. Keelman, Phila.
- 103 1 Lot Citrate Magnesia. S. C. Sheppard, Phila. E. Sheppard, Phila.
- 104 1 Imitation Rose Wood. W. B. Snyder, do.
- 105 1 Lot Shovels and Spades. Maxwell & Rowland, Holmesburg.
- 106 2 Drawings. J. Snowden Bell, Phila.

- 107 1 Shell Pyramid. T. A. Brown, Phila.
- 108 Case Skates. Newark Skate Co., Newark, N. J. W. W. Knight,  
Agent, Phila.
- 109 1 Lot Druggists' Scales and Weights. H. Troemmer, Phila.
- 110 1 Diaphanous Painting. L. G. Reed, Phila.
- 111 1 Case Patent Yankee Match Stands. C. O. Wilson, Phila.
- 112 1 Case Zephyr Work. Anna Edwards, Phila.
- 115 3 Circular Saw Handles. L. Vansciver, do.
- 116 1 Marble Box and Book. Jos. Collahan, Phila.
- 117 1 Local Anæsthesia. E. C. Stockton, Phila.
- 118 1 Frame Imitation Pearl Work. Bishop & Bevan, Phila.
- 119 Bed Quilt and 3 Jars Pickles. R. H. Griffith, do.
- 120 4 Cases De Laines. Hamilton Woollen Co., Southbridge, Mass. La-  
fourcade, Cox & Co., Phila.
- 121 2 Cases Hats, Caps, and Furs. Foster & Gebhard, Phila.
- 122 1 Silk Spread. Mrs. E. Hanning, Phila.
- 123 1 Case Patent Accordeons. A. Faas, Phila. J. Servoss, Phila.
- 124 1 Embossed Head. F. C. Key & Son, do.
- 125 1 Case Die Sinking. do. do. do.
- 126 Collection Fine Chemicals. Hennell Stevens, Phila.
- 127 12 pieces Fancy Cassimeres. Millville Manufacturing Co., Millville,  
Mass. Farnham, Kirkham & Co., Phila.
- 128 5 pieces Fancy Cassimeres. Merrimac Woollen Co., Dracot, Mass.,  
Farnham, Kirkham & Co., Phila.
- 129 5 pieces Fancy Cassimeres. Broadbrook Manufacturing Co., Con-  
nect. Farnham, Kirkham & Co., Phila.
- 130 2 Frames Fancy Zephyr Work. G. R. K. Hirst, Phila.
- 131 1 Crochet Tidy. G. R. K. Hirst, Phila.
- 132 Rose Allendale Quilt. Emily A. Humphries, Phila.
- 133 1 Jar Cyanide of Potassium. H. W. Worthington, Phila.
- 134 1 Stone Lined Water Cooler and Letter Press. Oliver Evans, Phila.
- 135 Needle Work, Washington Family. S. Milton, Phila.
- 136 Lot of Light Coloured Card Boards. A. M. Collins & Co., Phila.
- 137 4 Pictures. Robt. Love, Phila.
- 138 1 Case Fancy Bead and Brush Work. Pennsylvania Blind Asylum,  
Phila.
- 139 1 Box Dry Goods. W. A. Howard, Providence, R. I. Fales, La-  
throp & Co., Phila.
- 140 1 Lot Maps. N. W. Grammar School, Phila.
- 141 10 Window Shades. J. R. Ray, Phila.
- 142 2 Pictures. Geo. Dickson, Phila.
- 143 1 Map. T. H. Woodward, Phila.
- 144 1 Picture. W. J. Rodgers, Phila. Chas. Worrell, Phila.
- 145 4 Cases De Laines. Manchester Print Works, Manchester, N. H. J.  
C. Howe & Co., Phila.
- 146 1 Lot Essence Coffee. Eli Krupp, Phila.
- 147 1 Lot Trusses and Surgical Instruments. C. Marsh & Co., Phila.
- 148 1 Frame Hair Work. Mary Sover, Phila.
- 149 3 Bed Covers. George F. Smith, Phila.



- 150 Gas Generator and Gas Holder. N. Aubin, New York.
- 151 1 Carved Figure. Franeis Fox, Phila.
- 152 2 Bed Quilts. Susannah Johns, Chambersburg, Pa.
- 153 1 Case Galvanic Batteries. Dr. S. B. Smith, N. Y. Dr. W. H. Hazard, Phila.
- 154 1 Case Hats. W. F. Warburton, Phila.
- 155 1 Case Canes and Faney Ivory Turning. Geo. Doll, Phila.
- 156 6 pieeces Table Diaper. John Whitesides, Phila.
- 157 1 Lot Boot and Shoe Lasts and Trees. Jaeob Foster, Phila.
- 158 1 Case China. C. Fraser, Phila.
- 159 1 Lot Preserving Cans. Arthur Burnham & Co., Phila.
- 160 1 Lot Shawls. Jas. Roy & Co., N. Y. Wood & Erringer, Phila.
- 161 1 Lot Muslins. Wamsutta Mills, New Bedford. Wood & Erringer.
- 162 1 Case Bed and Crib Blankets. Newitchawanock Co. Pease & Brown, Phila.
- 163 1 Gross Razor Powders. Robert Jones, Phila.
- 164 Masonie and Faney Jewelry. Edgar F. Baton, Phila.
- 165 1 Lot Moulding Designs and Patterns. G. Pellman, Phila.
- 166 1 Spanish Hunting and Miniature Saddle. Franeis Fox, Phila.
- 167 1 American Plumbago. Plumbago Co. Saml. Webb.
- 168 1 Case Embroideries. Mrs. J. C. Wright, Phila.
- 169 4 Boxes Ferruginous Chocolate. E. Pineus, Phila.
- 170 4 Bottles Mustard. E. Pineus, Phila.
- 171 4 Rolls Chocolate. " "
- 172 1 Case Patent Leather Collars. W. R. Seott, Phila.
- 173 1 Case Gilt Mouldings. Thery & Krause, Phila.
- 174 7 Stereoscope Daguerreotypes. J. F. Mascher, Phila.
- 175 18 Gold Daguerreotypes. J. F. Mascher, Phila.
- 176 10 Stereoseopie Books. " "
- 177 8 " Skeleton Books. " "
- 178 1 " Faney Shell Box. " "
- 179 1 " Mahogany Work Box. J. F. Maseher, Phila.
- 180 4 " Boxes G. S. Mounted. " "
- 181 3 Stereoseopie Porte Monnaies. J. F. Maseher, Philadelphia, maker.
- 182 12 Magnifying Daguerreotype Cases. do do do
- 183 2 Model Cottages. Wm. Carson, Philadelphia. Frank Major.
- 184 1 Cask Ameriean Fertilizer. G. A. Lineau, Philadelphia, maker.
- 185 1 do Phosphate Lime. do do do
- 186 1 Faney Shell Work-Box. C. W. Bolton, do do
- 187 1 Etehing. C. Collis, Philadelphia, maker.
- 188 Faney Paste Board Work. D. Lewis, Philadelphia, maker.
- 189 1 doz. Sugar Worm Lozenges. Dr. Wieland, Allentown, Pa. Hoffman & Moritz.
- 190 8 pieces Canton Flannel. S. Riddle, Delaware eounty, Pa., maker.
- 191 2 eases Embroideries. Miss Stern, Philadelphia, maker.
- 192 Case Mathematical Instruments. H. Hartman, Philadelphia, maker.
- 193 Lot Patent Leather Collars. J. Beeher, do do
- 194 do Soaps. J. R. Graves & Co. Philadelphia, makers.
- 195 Model Ship. J. R. Ritter, do do

- 196 Lot Clothing. T. P. Dill & Co. Phila. Makers.
- 197 50 balls Webbing. S. Levin, do do
- 198 1 case Hair Jewelry. Miss A. Green, Phila., do
- 199 6 pieces Tweeds. Elm Street Manufacturing Company, Providence,  
R. I. F. G. Swan.
- 200 6 pieces Fancy Cassimeres. Scaton Wareham, Print Manufacturing  
Company, Connecticut. F. G. Swan.
- 201 Crayon Drawing. Walter Kidder, Philadelphia, maker.
- 202 Lord's Prayer. Wm. Hunt, do do
- 203 Lot Glass Plate and Roofing Glass. Philadelphia Glass Company,  
Philadelphia. W. P. Walter.
- 204 2 cases Roofing Slate. Peach Bottom Slate Company, Philadelphia,  
S. D. Bodine, President.
- 205 Bed Quilt. Mrs. Peters, Philadelphia, maker.
- 206 Case of Embroideries. E. Grosjean, Philadelphia, maker.
- 207 Electro-Magnetic Machine. W. H. Weekes, do do
- 208 Lot Dry Goods. D. Longenecker, Lancaster, Pa. J. Farnum & Co.
- 209 Painting. A. Schoneman, Philadelphia, maker.
- 210 Case Family Syringes. Mattson & Co. Philad. makers.
- 211 Case Ladies' and Children's Furnishing Goods. M. A. Jenks, Phila-  
delphia, maker.
- 212 Case Wax Fruit and two Vases. Mrs. R. Bunn, Philad., maker.
- 213 Dental Case. Thos. Wardle, Philadelphia, maker.
- 214 Case Stammering Instruments. R. Bates, do do
- 215 Frame and Picture. E. Thompson, do do
- 216 2 do do. I. S. Ribben, do do
- 217 Chess Board and Case. D. Keyser, do do
- 218 6 Window Shades. J. L. Isaacs & Bro. do do
- 219 Case Gilt Mouldings. F. Gabylewitz, do do
- 220 2 Frames and Drawings. D. R. Knight, do do
- 221 Case Fancy Shirts. Mrs. Schaffer, do do
- 222 do Cigars. C. C. Bostwick, do do
- 223 Invoice Hardware. P. & F. Corbyn, New Britain. Miller & Wood.
- 224 Lot Fine do B. Martens, Philadelphia, maker.
- 225 Glass Show Case. F. Haffner, do do
- 226 Movable Planisphere of the Heavens. H. Whitall, Philad., maker.
- 227 Lot Copying Paper. Spring Lawn Mills, Philad. H. J. Brackney.
- 228 Lot Back and Hand Saws. Quaker City Saw and Shovel Works,  
Philad., makers.
- 229 Case Spool Cotton. B. J. Shreve, Mount Holly, N. J. maker.
- 230 Zephyr Portrait. Mrs. A. B. Linderman, Philadelphia, do
- 231 Case Plasters. W. H. Pratt, do do
- 232 5 pieces Table Damask Diaper. C. Porter, do do
- 233 Lot Dry Goods. James Long, do do
- 234 Bed Quilt. Ellen Paynter, do do
- 235 Map of the World. George G. Morton, do do
- 236 Lot Chemicals. Rosengarten & Sons, do do
- 237 3 Cards Friction Rollers. Albertson & Douglass, N. London. J. Morton.
- 238 2 Match Safes. L. Willard, Philadelphia, maker.



- 239 3 Boxes Soda Fountain Draft Apparatus. H. Morse, Boston, and F. Morris Perot.
- 240 1 Box Carved Wood Work. S. A. Adams, Philadelphia, maker.
- 241 4 pairs Medical Saddle Bags. J. S. Miller, do do
- 242 2 Paintings. Miss Chapman, do do
- 243 1 Counterpane. Mrs. C. Merriam, Philad. C. J. Merriam.
- 244 Lot Chemical and Pharmaceutical Preparations, Philad. E. H. Hance.
- 245 2 pieces Needlework. Miss Williams, do maker.
- 246 2 Plates Written Music. J. Kennedy, do do
- 247 1 Case Liquid Glue. W. C. M'Rea, do do
- 248 Invoice Cattle Powder. J. D. Pierce, do do
- 249 Map Adjuster. Wm. Scott, do do
- 250 Lot Mineralogical Specimens. J. W. Cadbury, do do
- 251 Sole Leather House. W. Huston, do do
- 252 Imitation Rosewood. J. N. Snyder, do do
- 253 Medical Battery. C. T. and J. W. Chester, New York. J. D. Knight.
- 254 Rail Road Signal. J. Busser, Philad. maker.
- 255 Case Porcelain Teeth. John Klein, Philadelphia, maker.
- 256 Lot Blank Books, from Shelves. Wm. Mann, 34 S. 3d St., Phila.
- 257 Vase Leather Fruit. Anna M. Melvin.
- 258 Patent Self-Measuring Cocks. J. A. Morris, Philada. J. W. N. Huntingdon.
- 259 Drawing. Jacob Burgam, do J. J. Walto.
- 260 Toilet Frame Looking Glass. G. S. Senatz, do maker.
- 261 Frame Sample Cut Glass. French & Richards, do do
- 262 16 pieces Assorted Cottonades. Joseph Ripka, do do
- 263 2 Cases Candles. Thain & McKeon, do do
- 264 1 Masonic Chart. James Kelly, do do
- 265 10 pieces Checks. W. & J. Watt, do do
- 266 Lot Fancy Soaps. L. Frank, do do
- 267 do India Rubber Silk. Webster & Leberman, do do
- 268 Card Press. E. A. Grattan, do do
- 269 Invoice Silver Plated Ware. Hatting, Myer & Warne, Phila. makers.
- 270 Case Cotton Linings. J. Monroe & Co., New York. T. R. Gill.
- 271 Porcelain Vase. Keller & Bright, Philadelphia, makers.
- 272 Diaphragm. do do do
- 273 1 piece Worsted Embroidery. Miss C. E. Van Horn, Phila., maker.
- 274 2 pieces Inlaid Wood. C. Volkers, New York, Burdfield & Ramson.
- 275 1 Case Carmine Ink. W. C. Bakes, Philadelphia, W. C. Bakes.
- 276 1 do Horticultural Implements. Paschall, Morris & Co. do.
- 277 Lot Ambrotypes and Mezzographs. I. Rehn, Philadelphia, maker.
- 278 do Manufactured Desigus. School of Design for Women, Philadelphia, maker.
- 279 Case Artificial Teeth and Corrandom Wheels. Owen & Armstrong, Philadelphia, makers.
- 280 Dental Furnace. A. Marshall, Delaware, maker.
- 281 Lot Hair Paintings and Jewelry. Mrs. Reese, Philad., maker.
- 282 Drawing, Locomotive. Edward Page, do do
- 283 Case Steel Punches. Jacobus & Schell, do do

- 284 Lot Perfumery and Bitters. G. J. Nichols, Phila. Maker.  
 285 do Furniture Polish. Joel Fales, do do  
 286 Liquid Cleansing Cloth. do do do  
 287 12 pieces Flannels. Ballard Vale Co., Mass. Farnum, Kirkham & Co.  
 288 Case Wax Flowers. Miss Cady, Philadelphia, maker.  
 289 Case Ambrotypes and Russia Iron. J. R. Clemons, Philad. maker.  
 290 Lot Calamine Zinc Ore. Pennsylvania and Lehigh Zinc Company.  
 Gordon Monges.  
 291 Case Ladies' Shoe Lasts. S. S. Redofer, Germantown, maker.  
 292 Lot Bed Hangings. Caroline Cantrell, Philadelphia, do  
 293 do Children's Embroideries. Mrs. E. Keyser, do do  
 294 do Ornamental Glass. Cooper & Belcher, New York. R. Shoemaker  
 & Co.  
 295 6 Eyelet Machines. H. L. Lipman, Philadelphia, maker.  
 296 2 Valises and 1 Trunk. T. Mattson, do do  
 297 2 Boxes Starch. J. G. Gilbert, New York. A. B. Ives.  
 298 Invoice Ladies' Under-Garments, etc. Mrs. M. W. Ernest, Philadel-  
 phia, maker.  
 299 Lot Paints and Colours. Gilsboro Works, Camden, N. J. J. Lucas  
 & Co.  
 300 32 Silk Umbrellas. W. A. Drown, Philadelphia, maker.  
 301 Sewing and Stitching Machine. Wheeler & Wilson's Manufacturing  
 Company, Connecticut. H. Coy.  
 302 Lot Glassware. John Capewell, Philadelphia, maker.  
 303 5½ doz. Morocco Leather. G. Adler, do do  
 304 1 doz. Curaçoa Bronze Kid. Jos. Neville, Philadelphia, maker.  
 305 1 Case Artificial Legs. B. F. Palmer, do do  
 306 1 Model Cottage. W. R. Tiers, do do  
 307 4 Ladies' Skirts. J. M'Mullen, do do  
 308 Case Artificial Teeth. W. C. Eastlack, do do  
 309 do Masonic Jewels, etc. G. P. Pilling, do do  
 310 do Bibles. J. B. Perry, do do  
 311 Box Pin Type for the Blind. J. E. Carpenter, do do  
 312 Case Restraining Apparatus for Insane. J. S. Fisher, Philad. maker.  
 313 Fancy Acorn Basket. Miss Haines, do do  
 314 Case Artificial Flowers. R. Oehlschager, do do  
 315 Lot Stained Glass. R. W. Roberts, do do  
 316 4 pieces Tufted Talma Cloth. Bridgeport Woollen Mills. J. C. Howe  
 & Co.  
 317 Frame Specimen Printing. H. A. Brown, Philadelphia, maker.  
 318 Silver Centre Piece. Taylor & Laurie, do do  
 319 Dressing Case, Writing Desk, etc. W. T. Fry. do do  
 320 Case Fancy Furs, etc. L. Fishblatt, do do  
 321 Lot Planes. B. Sheneman, do do  
 322 Case Mathematical Instruments. C. A. Saxe, do do  
 323 Model Bill Counter. C. C. M'Glattry, do do  
 324 3 Patent Measuring Funnels. A. C. Drand, do do  
 325 3 Cases Surgical Bandages. B. C. Everett, Phila. Maker.  
 326 Lot Leather. M'Neely, Siner & Wallace, " "

- 327 Lot Clothing Pins. Thomas W. Williams, Phila.
- 328 Patent Spring Shell Horse Shoe. Newbold, Safford & Co., Phila. Makers.
- 329 Tower's Patent Creepers. Safford & Williams, Phila. Makers.
- 330 Patent Self-supporting Scaffold. A. C. Funston, Phila. Maker.
- 331 Case Mathematical Instruments. J. R. Harbeson, " "
- 332 Case Wool. Coates & Brown, " "
- 333 Piano Forte. W. P. Emerson. Boston, A. P. Hughes.
- 334 3 Melodeons. Conhard Needham & Co., " "
- 335 Lot Earthenware, Granite and China. Taylor, Speeler & Bloor, Trenton, N. J. J. L. Hoffman.
- 336 Case Philosophical Instruments. M'Allister & Bro., Phila. Makers.
- 337 1 Lot Bronze. Leeonte, jr., Phila. Maker.
- 338 Case Spices, &c. J. W. Lathrop, Phila. Maker.
- 339 Lot Sheepskin Bindings. Wm. Adams, Phila. Maker.
- 340 1 pair Water Proof Boots. J. J. Halsall, " "
- 341 1 Roach Trap. T. J. Berry, " "
- 342 1 Lot Alamandine. A. W. Gale, " "
- 343 5 Small Drawings. Isabella Hillen, " "
- 344 Piano Forte. B. Freeman, " "
- 345 Medallion. A. H. Briscoe, " "
- 346 3 Cases Silver Plated Ware. J. O. Mead & Son, Phila. Makers.
- 347 1 Case Embossed Veneers, 1 Table. Israel Amies, " "
- 348 Cast Steel Shears. Clarenback & Hedder, " "
- 349 Case Mathematical Instruments. Amsler & Wetz, " "
- 350 Piano Forte. Lane & Cairl, Phila. J. F. Wilkin.
- 351 Case Wax Fruit, &c. A. Lea, Phila. Maker.
- 352 Case Ladies' Children's Linen. Mad. Segorii, Phila. Maker.
- 353 " Dressing Gowns, Wrappers. " " "
- 354 Card Machine Shirt Bosoms. H. Coy, " "
- 355 Case Needle Work. Mrs. G. S. Miller, " "
- 356 Gilt Oval Mirror and Flower Stand. Newland & Co., Phila. Makers.
- 357 Case Masonic Marks. A. C. Supplee, " "
- 358 Frame Paper Stamp and Cutter. Marine Moore, " "
- 359 Case Straw Goods. T. White & Co., " "
- 360 " Fancy Bonnets. " " " "
- 361 Lot Gelatine Isinglass. H. Gerker, Son & Co., " "
- 362 Lot Sheep Skin Binding. J. H. Hummell, " "
- 363 Lot Needle Work. Mrs. Culp, " "
- 364 Glass Syringes and Bottles. Thos. Burns & Co., " "
- 365 West Patent Galvanic Cement Roofing. W. R. & D. S. Cornell, Phila. Makers.
- 366 Lot Gold Embroidery. Cuadnuv & Jeannett, Phila. Makers.
- 367 Lot Tin Japanned Ware. I. S. Williams, " "
- 368 2 Carved Gilt Looking Glass Frames. A. S. Robinson, Phila. Maker.
- 369 Small Carved Frames. J. Staley, " "
- 370 Bright Japanned Ware, Fancy Ware. Hadden, Carl & Porter, Phila. Makers.
- 371 Lot Window Curtain Fixtures. G. Lyman Miller, Phila. Maker.

- 372 Military Spur. J. S. Ewbank, Washington, D. C. Maker.
- 373 Violin. J. Albert, Phila. Maker.
- 374 3 Panoramic Business Directory. Baxter & Neff, Phila. Makers.
- 375 1 Case Shirts and Drawers. Newark Hosiery Co., Newark, N. J. W. E. Lockwood.
- 376 1 " Patent Enamelled Shirt Collars. B. H. Valentine & Co., N. Y. W. E. Lockwood.
- 377 1 Munson's Patent Lightning Rod. Dr. Darrah. Munson, Maker.
- 378 2 Pairs Skates. Bushnell & Tull. W. Vankook. Maker.
- 379 1 Leather Work basket, Wax flowers, &c. Miss Chapman, Phila.
- 380 1 Water Coloured Painting. Miss Smith, Phila.
- 381 1 Lot Perfumery. R. S. Cresfiani, Phila.
- 382 1 Lot Daguerreotypes and Ambrotypes. C. M. Ising, Phila.
- 383 1 Case Brimstone and Virgin Rock. Fred. Schlos, N. Y. M. Gula-  
ger & Bro., Phila.
- 384 2 Jars Saltpetre. C. & C. C. Henshaw & Co., Phila.
- 385 1 Canister Ox Cobalt. Buck, Simonin & Co. Makers.
- 386 3 Boxes Metallic Nickel. " " " "
- 387 1 Set Plated Coach Harness. M. McGee & Co. "
- 388 1 Case Cart Harness and Saddles. " " "
- 389 1 Bead Locomotive, &c. N. B. Kneass, Jr. N. B. Kneass.
- 390 1 Pastil Painting. Miss F. Chapman. Maker.
- 391 Papier Mache Pannel. D. D. Dick. "
- 392 1 Case Porcelain Teeth. Jones, White & McGurdy. Makers.
- 393 1 Lot Wooden Soled Shoes. M. & J. Robinson. "
- 394 1 Case Machinist Tools. J. B. Brown & Sharp, Providence, R. I.  
W. W. Moore & Co.
- 395 1 Flute & Violin. John Pfaff, Phila. Maker.
- 396 1 Case Philosophical Instruments. L. C. Francis, Phila. Maker.
- 397 1 Case Prints. Manchester Print Works, N. H. J. C. Howe & Co.
- 398 2 Piano Fortes. Hunt & Co, Phila. Makers.
- 399 1 Case Harness. W. U. Moyer, Phila. Maker.
- 400 1 Case Weller's prime Blacking and Stove Polish. M. Curry. Maker,  
Phila.
- 401 1 Show Case. G. F. Kolb. Maker, Phila.
- 402 1 Lot Clothing. Jos. M. Bennett. Maker, Phila.
- 403 1 pair Gold Window Shades. A. H. Terhune. Maker, Phila.
- 404 1 Gilt Mercury. Edward Duferene. Maker, Phila.
- 405 1 Ornamental Frame. Mooney & Co. Makers, Phila.
- 406 1 piece Framed Needle Work. Mooney & Co. Makers, Phila.
- 407 1 Picture Frame. Geo. Wilson. Maker, Phila.
- 408 1 Telegraphic Instrument. J. J. Clark. Maker, Phila.
- 409 2 Sewing Machines. Hunt & Webster, Boston. Maker, J. Wilcox.
- 410 Lot Self-Sealing Cans. Wells & Provost, N. Y. " "
- 411 1 Dozen Rotary Knife Cleaners. J. Wilcox. " "
- 412 Lot Demerest's Magic Miniature Cook Stoves. Demerest, New York.  
Maker, J. Wilcox.
- 413 2 Rotary Gas Smoothing Irons. J. Wilcox. Maker, J. Wilcox.
- 414 1 Case Blank Books. W. F. Murphy. " "

- 415 1 Case Letter and Note Paper. W. F. Murphy. Maker, Phila.  
 416 1 " Doll Bodies. Miss M. Sturges. " "  
 417 1 " Accordeons. A. Faas. " "  
 418 1 Lot Curry-Combs. W. Beach. " "  
 419 1 Case Hair Jewelry. C. Staberrauch. " "  
 420 1 Lot Square Bake-pans. W. Beach. " "  
 421 1 Meat Maule. " " "  
 422 1 Case Bread. Chas. Wood. " "  
 423 1 " Carpenters' Tools. Booth & Mills. " "  
 424 1 Oil Painting. Vandenkerchhove. " "  
 425 1 Lot Patent Frame School Slates. E. Young & Co., Phila. P. F. Justice & Co.  
 426 3 Crochet Collars. Miss M. A. Matlack, N. J., Maker.  
 427 Picture of Washington. G. W. Wells. Phila., F. Bowers, Jr.  
 428 Case Pocket Books, &c. F. H. Smith, " Maker.  
 429 1 Jar Pickles. A. Hansell, " "  
 430 1 Invoice Umbrellas and Canes. W. H. Richardson, Phila. Maker.  
 431 1 Lot Chemicals. Powers & Weightman, Phila., Makers.  
 432 1 Lot Alum and Blue Vitriol. Powers & Weightman, Phila. Makers.  
 433 1 Lot Magie Lotion and Cough Pills. Dr. Stevens, Phila. "  
 434 1 Invoice Silver Ware. W. Wilson & Son, Phila. Makers.  
 435 1 Piano Forte. Hallett, Davis & Co., Boston. J. E. Gould.  
 436 4 Piano Fortes. Raven, Bacon & Co. N. Y., "  
 437 1 " Nunns & Clark. " "  
 438 1 Organ Harmonium. Mason & Hamlin, Boston. "  
 439 1 " " with Pedals. Mason & Hamlin, Boston. J. E. Gould.  
 440 3 Melodeons. Mason & Hamlin, Boston. J. E. Gould.  
 441 3 Kidder's Patent Gas Regulators. N. Y., Gas Reg. Co. New York, J. Wileox.  
 442 1 Dry Gas Meter. Downs. New York, J. Wileox.  
 443 1 Oil Painting. E. G. Andrews, Phila. Maker.  
 444 6 Photographs on Glass. F. Langenheim, Phila. Maker.  
 445 1 Quilt. Harriet L. Savage, Phila. Maker.  
 446 1 Case Millinery. E. Elsburch, Phila. Maker.  
 447 1 Large Ornamental Gilt Frame. J. S. Earle, Phila. Maker.  
 448 1 Lot Daguerreotypes. Richards & Betts. " "  
 449 1 Lot Photographs. " " " "  
 450 1 Lot Portrait on Glass. " " " "  
 451 1 Case Artificial Teeth. Dr. I. Lukens, " "  
 452 1 Money Drawer. Richard Tea, " "  
 453 1 Case Patent Medicines. J. A. de Lute, " "  
 454 1 Lot Plated Ware. Hall & Boardman, " "  
 455 1 Lot Ornamental Gilt Frames. G. P. & J. E. McLean, Phila. Makers.  
 456 1 Case Dentistry. R. A. Porter, Phila. Maker.  
 457 1 Lot Saddlery and Harness. Lacey & Phillips, Phila. Makers.  
 458 4 Sides Harness Leather. Armstrong Crawford, " "  
 459 1 Lot Wax Splits. " " " "  
 460 1 Lot Printed Books. Dunsford & Freymouth, " "



- 461 1 Case Wigs and Perfumery. R. Dollard, Phila. Maker.  
462 1 Piano Forte. Birgfield Ramm, " "  
463 1 Square Piano Forte. " " "  
464 1 Upright " " " " "  
466 1 Frame Stone-Cutter's Bore Drill. F. Van Gunden, Phila. Maker.  
467 1 Foot Stool. W. S. Nelson, Phila. Maker.  
468 1 Case Ladies' Fine Shoes. J. W. M'Curdy & Son, Phila. Makers.  
469 1 Case Elastic Garters. Eliza Drew, Phila. Maker.  
470 1 Case Musical Instruments. Joseph Neff, Phila. Maker.  
471 1 Crochet Cradle Counterpane. Mrs. M. F. Brooks, Phila. Maker.  
472 1 Invoice Silver Plated Ware. E. W. Carryle, " "  
473 1 " " " Jarvis & Cormerais, Boston. E. W. Carryle.  
474 1 Invoiced Japanned Goods. E. Carter & Co., N. Y., E. W. Carryle.  
475 1 " " " Taylor Hodges, " "  
476 1 " " " Musgrove & Young, "  
477 1 Invoice Table Cutlery. Lamson, Goodnow & Co., N. Y., "  
478 1 Crochet Covering. Mrs. Wright, Phila. E. W. Carryle.  
479 1 Lot Clothing. G. Stokes, Phila. Maker.  
480 1 Graphite or Plumbago. S. Newell, Phila. H. D. Knight.  
481 1 Case Gents' Furnishing Goods. Oldenburgh & Taggert, Philada. Makers.  
482 1 Crochet Bed Drapery. Mrs. Taylor, Phila. Maker.  
483 1 " Stand Cover and Tidy. Mrs. Newell, Phila. Maker.  
484 1 Quilt and Patchwork Spread. Mary King, " "  
485 1 Model Cottage. Jas. H. Snyder, " "  
486 1 Collins' Improved Oil Test. Collins, Phila. C. W. Knight.  
487 1 Over Coat and Pants. Oliver & Wells, Phila. Makers.  
488 1 Lot Books. J. W. Moore, " "  
489 1 Case Leather Flowers. A. Williamson, " "  
490 1 Car Seat. M'Laran & Busher, " "  
491 1 Lot Daguerreotypes and Ambrotypes. M. S. Hagaman, Phila. Maker.  
492 1 " " Photographs. W. L. Germon, " "  
493 1 Case Water Colours. G. W. Osborn & Co. " "  
494 1 Case Philosophical Instruments. W. C. & J. Neff, " "  
495 1 Frontispiece, U. S. Hose Co. A. E. Warner, Baltimore. H. J. Gallagher.  
496 2 Model Hose Carriages. J. L. Fox, Phila. Maker.  
497 1 Lot Blank Books. D. M. Hogan, " "  
498 1 Lot Machine Stitching. Mrs. Egbert, "  
499 1 Lot Root's System Writing. D. F. Lawrence, Phila. Maker.  
500 1 Cornet Silvered. T. J. Weygandt, " "  
501 1 Invoice Planes. John Colton, " "  
502 1 Invoice Engraved Portraits on Steel. J. M. Wilson, Phila. Maker.  
503 1 Case Hand Saws, Squares, &c. W. Cresson, Phila. Maker.  
504 4 Mill and Cross-Cut Saws. " " "  
505 1 Case Edge Tools. C. Hammond, " "  
506 2 Cases Draw Knives, Chisels, &c. Whitman & Mills, Mass. Makers.  
507 1 Card Patent Bitts. Caldwell & Ghriskey, Phila. Makers.

- 508 1 Lot Stained Glass. J. & G. H. Gibson, Phila. Makers.  
 509 6 Saw Mandrils. J. Whitney, Winchester, Mass. W. Cresson.  
 510 1 Invoice Safety Implements. P. S. C., Phila. Makers.  
 511 1 Acanthus Flower. T. Heath, " "  
 512 1 Malogramatic Drawing. M. S. Worrell, " "  
 513 1 Painting Flying Cloud. W. B. Bonfield, Beverly, N. J. S. H. Kirk.  
 514 1 Piano Forte. E. P. Graham, Phila. Maker.  
 515 1 Case Shuttles. E. Jackson, " "  
 516 2 Valise Trunks. A. T. Hickey, " "  
 517 1 Model Hose Carriage. F. Culberson, Phila. D. F. Linn.  
 518 1 Lot Writing Ink. B. Bussier, Phila. Maker.  
 519 1 Heat Box. W. Topfer, " "  
 520 1 Lot Needlework. Miss Peirec, " "  
 521 1 Water Colour Drawing. J. H. Dale, Phila. Maker.  
 522 1 Model Punching Machine. B. Martin, Phila. Maker.  
 523 1 Lot Books. W. H. Maurice, " "  
 524 1 " Steel Pens. Am. Steel Pen Manuf. Co., N. Y. A. Granger.  
 525 1 Case Children's Clothing. Mrs. H. G. Supplee, Phila. Maker.  
 526 1 Lot School Apparatus. Holbrook School Manuf. Co., Hartford. J. W. Queen.  
 527 1 Lot Air Pumps for Colleges. E. S. Ritchie, Boston. J. W. Queen.  
 528 1 Tierce Instruments and apparatus. "  
 529 1 Magno-Electro Machine. Dr. S. B. Smith, N. Y. Dr. W. H. Hazard.  
 530 2 Gyroscopes. W. B. Jones, Phila. Maker.  
 531 1 Frame Fancy Printing. E. Ketterlinus & Co., Phila. Makers.  
 532 3 Manifold Letter Writers. A. L. Adams, " "  
 533 Municipal & R. R. Telegraph. Phillips & Robiusion, Phila. Makers.  
 534 2 Patent Book Cases. A. L. Adams, Phila. Maker.  
 535 1 " Steam Valve. R. Cornelius, " Cornelius & Baker.  
 536 1 Case Ladies' and Children's furnishing Goods. Miss M. L. Spooner, Phila. Maker.  
 537 1 Electro-Magnetic Machine. Dr. Dickinson, Phila. Maker.  
 538 1 Frame Hair Work. S. E. Albrick, Phila. Maker.  
 539 1 Lot Daguerreotype Bibles. Perry & Erety, Phila. Makers.  
 540 1 Electro-Machine. E. J. Ritchie, Boston. J. W. Queen.  
 541 3 Saddles. E. P. Moyer, Philadelphia. Maker.  
 542 1 Case Files. Lymau & Bunting.  
 543 1 Lot Squares and Trammels. P. Ferrault, Newark, N. J. Do.  
 544 2 Shovels. Antrim Shovel Co., Antrim. Do.  
 545 1 Water Closet. E. Bookeus, Newark. Do.  
 546 1 Case Stair Rods. Eddy & Hinchman, N. Y. Do.  
 547 2 Jars white and coloured Vinegar. E. Jones, Phila. Maker.  
 548 1 Lot Patent Creased Traces. Hood, Milton, Pa. F. B. Myerley.  
 549 1 Gilt Frame and Charter. J. Vogdes, Phila. Maker.  
 550 1 Crochet Work Box. Miss Murdoch, Phila. Do.  
 551 2 Frames Flowers. Mrs. Sturdevant, Phila. Maker.  
 552 2 Pairs of Shoes. W. C. Weaver, " "  
 553 2 Reflecting Lamps. Jno. G. Smith, " "  
 554 Card Brass Work. Thos. Dodameade, Camden, N. J. Maker.

- 555 Model Tackle Scale. A. B. Davis & Co., Phila. Makers.
- 556 11 Spirit Plumb and Levels. Wm. Goldsmith, Phila. Maker.
- 557 Self-Acting Rail Road Telegraph. H. Seelhorst, inventor, Phila. Maker.
- 558 Vase Flowers, &c. The Misses Jones, Phila. Makers.
- 559 Drawing. Jno. B. Woods, Philada. Maker.
- 560 Lot Furnishing Goods. J. Burr Moore, Phila. Maker.
- 561 Counterpane. Mrs. A. Broom, Phila. Maker.
- 562 Case Surgical Instruments. J. H. Gemrick, Phila. Maker.
- 563 Flower Stand. L. Little, Phila. Maker.
- 564 Case Birds. G. Boudwin, " "
- 565 Case Musical Instruments. C. M. Zimmerman, Phila. Maker.
- 566 Drawing. Samuel T. Longstreth, Phila. Maker.
- 567 Lot of Handles. P. G. Reading, Frenchtown, N.J. J. E. Armour.
- 568 Basket of Fancy Flowers. Miss M. Frambus, Phila. Maker.
- 570 Drawing in Frame. Robt. K. Lovett, Phila. Maker.
- 571 " " J. M. Schoeffield, " "
- 572 3 Guitars. J. Bewind, Phila. Maker.
- 573 Lot of Coffee, &c. Bohler & Thompson, Phila. Makers.
- 574 Stool Covers. Miss E. Jones, Phila. Maker.
- 575 2 Embroidered Ottoman Seats. Miss C. M. Ackerman, Phila. Enos Baldwin.
- 576 Bed Quilt. Mrs. M. Smith, Phila. Maker.
- 577 2 Bed Quilts. Sarah M. Griffith, Phila. A. M'Donald.
- 578 2 Pictures and Frames. M. F. Adams, Phila. C. H. Adams.
- 579 Spirit Level. L. Brooks, Great Falls, N. H. L. E. Slow.
- 580 Extension Bit. A. Weeks, Boston. T. Smith.
- 581 Self-Inking Hand Stamp. Boston Hand Stamp Co., Boston. D. Ramsey.
- 582 Window Pane. D. R. Hudson, Boston. Maker.
- 583 Drawing and Frame. R. W. Roake, Phila. Maker.
- 584 2 Trunks. A. L. Hickey & Sons, Phila. Makers.
- 585 Pine Brew's Basket. Geo. Blyand, Phila. "
- 586 Lot Plaster Ornaments. W. H. French, Phila. Maker.
- 587 2 Pattern Trigger Protection Guns. B. H. Westerhood, Phila. Maker.
- 588 3 Coloured Drawings. A. Kollner, Phila. Maker.
- 589 3 Painted " M. B. Adams, Phila. E. L. Wilson.
- 590 Cape May Diamond Cottage. Mrs. R. Eams, Phila. Maker.
- 591 2 Frames, Spec. of Printing. Sturdivant & Maas, Phila. Makers.
- 592 Case Guns and Rifles. John Krider, Phila. Maker.
- 593 Lot Plaster Ornaments. A. Campbell, " "
- 594 Crayon Drawings. John H. Weeks, " "
- 595 Ornamental Signs. H. & N. Williams & Co., Phila. Makers.
- 596 Jobs Sears Stand. Mrs. R. Eams, Phila. Maker.
- 597 Bottle Patent Alcohol. Z. Locke & Co., Phila. Makers.
- 598 Crayon and Frame. Jas. Mackie, Phila. Maker.
- 599 Star Quilt. E. Reinert, Phila. Maker.
- 600 3 Infallible Locks. L. Yale, Jr., & Co., Phila. Makers.
- Burglar Proof Safe. " " "

- 601 Lot Machinery Carved Block Letters. W. C. Murphy, Phila. Maker.  
 602 Pencil Drawing. W. Ettenger, Phila. Maker.  
 603 Case Mathematical Instruments. S. Murset, Phila. Maker.  
 604 7 Pieces Cassimeres. Amer Mills Co., Rockville, Conn. Hacker,  
 Lea, & Co.  
 605 2 Bottles Glass Makers' Sand. R. Wittecar, Phila. Maker.  
 606 Lot Plaster Images. H. Maguire & F. Gossin, " "  
 607 Turk's Head. H. Wilkins, Phila. Maker.  
 608 Patent Self-Priming Gun Lock. J. S. Butterfield, Phila. Maker.  
 609 Card Pearl Buttons and Studs. Mustin & Bennet, " "  
 610 Case Artificial Teeth. C. Patterson, Phila. Maker.  
 611 Machine Drawing. Muntzinger, " "  
 612 Frame Specimen Marble Paper. Chas. Williams, Phila. Maker.  
 613 Case Gent's. Furnishing Goods. Miss H. Souder, " "  
 614 3 Pairs Ladies' High Boots. J. T. Warren, Philada., Maker.  
 615 Case Carriage Bolts. T. and W. Shields, Phila. Makers.  
 616 3 Frames Chromo-Lithograph. L. N. Rosenthal, Phila. Maker.  
 617 Small Model Fire Engine. R. Stileman, Jr., " "  
 618 Card Razors. W. Gilchrist, Phila. Maker.  
 619 Case Oil Silks. Assorted. S. Wright & Son, Phila. Makers.  
 620 2 6 Lt. Chandeliers, "Armor" Bronze, Cornelius & Baker, Phi. Mkr's.  
 621 1 12 do "Maritime" Gilt, do do  
 622 2 6 do "Chinese" Artistic, do do  
 623 2 6 do "Rococo" Gilt, do do  
 624 2 6 do "Louis XIV.," Verd Antiq., do do  
 625 1 6 do "Jacobin," Bronze, do do  
 626 2 3 do "Science Trimming Lamp  
 of Life," do do  
 627 1 8 do "Renaissance," Relieved, do do  
 628 2 6 do "Greek," Bronze, do do  
 629 2 3 do "Flying Cupid," Gilt, do do  
 630 1 3 do "Dancing Figure," Gilt, do do  
 631 1 6 do "Warrior," Bronze, do do  
 632 2 3 do "Library," Artistic, do do  
 633 1 3 do "Griffin," Bronze, do do  
 634 2 6 do "Franklin," Artistic, do do  
 635 2 6 do "Western Hunter," Vd. Ant. do do  
 636 1 3 do "Highlander," Bronze, do do  
 637 1 1 Lt. Pendant, "Bacchus," " do do  
 638 1 1 do "Hunting," Artistic, do do  
 639 1 1 do "Terminal," Bronze, do do  
 640 2 1 do "Egyptian," Verd Antiq., do do  
 641 2 3 Lt. Brackets, "Eagle," Gilt, do do  
 642 2 1 do "Highlander," Gilt, do do  
 643 2 1 do "Griffin," Gilt, do do  
 644 2 2 do "Science and Prud.," Gilt, do do  
 645 2 2 do "Barge of Cleopatra," do do do  
 646 2 2 do "Laughing Satyr," Bronze, do do



- 647 2 2 Lt. Brackets, "Castellated," Bronze, Cornelius & Baker, Phila. Makers.
- 648 2 1 Lt. Pillars, "Mercury," Bronze, do do
- 649 2 Reading Lights, "Tamborine," Bronze, do do
- 650 2 do "Brigand," Bronze, do do
- 651 2 do "Franklin," Bronze, do do
- 652 2 do "Washington" Bronze, do do
- 653 2 Reading Lights, "Water Carrier" Bronze, do do
- 654 2 do "Knight" Bronze, do do
- 655 2 do "Hunter" Bronze, do do
- 656 2 Segar Lighters, "Old Man," Bronze, do do
- 657 2 Bronze Statues, "Zouave & Highlander," do do
- 658 2 do "Mercury," do do
- 659 2 do "Buffalo," do do
- 660 2 do "Stag," do do
- 661 2 do "Globe and Books," do do
- 662 14 Sets Girandoles "Asso. patt. Gilt and Silver," do do
- 663 8 pr. 3 lt. do do do do do do
- 664 40 Solar Lamps do do Bronze," do do
- 665 2 Regulator Clocks, duplex movement. Heitel & Bro., Phila. Makers.
- 666 1 Stand Drugs and Chemicals. C. Ellis & Co., Phila. Makers.
- 667 Patent Clutch Pulley. Wendell & Wright, N. Y. Lyman & Bunting.
- 668 3 Patent Horse Shoes. N. B. Carpenter, do do do
- 669 Pat. Apple and Peach Machine. S. Coleman & Co., N. Y. Lyman & Bunting.
- 670 2 Bench Rests. Chandler & Gray, Salem, Mass. Lyman & Bunting.
- 671 Pat. Bench Hook. Clapp & Nuttall, Wappington Falls, N. Y. do
- 672 2 Pat. Box Openers. G. C. Taft, Worcester, Mass. Lyman & Bunting.
- 673 2 Seal Presses. E. Kallenberg & Co., Phila. Makers.
- 674 2 Maps U. S., and Penna. Maps. R. L. Barnes, Phila. Maker.
- 675 Lot Stone and Earthenware Enamelled. Henry Remmy, Phila. Maker.
- 676 Case Cigars. F. Hafner, Phila. Maker.
- 677 Case Dry Goods. Hamilton Woollen Co., Southbridge, Mass. La-fourcade, Cox & Co.
- 678 Lot Machine Sewing Silk. Gurney & Co., New York. Chas Lang.
- 679 Bed Quilt. Mary E. Craw, Phila. Maker.
- 680 Case Gold and Silver Surgical Instruments. J. S. Warner, Phila., Maker.
- 681 2 Cases Optical Instruments. J. Schnaitman, Phila. Maker.
- 682 Case Porte Monnaies and Fancy Goods. C. Rumpp & Co., Phila. Makers.
- 683 Lot Needle Work. Anna E. M. Smith, Phila. Maker.
- 684 Bed Quilt. Mrs. S. A. Fulton, Philadelphia. Maker.
- 685 Invoice Gas Regulators and Meter. Penna. Gas Reg. Co., Phila. Maker.
- 686 3 Pieces Black C. W. Cloths. J. M. Church & Bros., Middlefield, Mass. Dulles & Hewson.
- 687 Lot Marine Algæ. J. M. Somerville, Phila. Maker.
- 688 Lot Engraved Masonic Emblems. J. F. Leak, Phila. Maker.
- 689 Lot Tin and Japanned Ware. I. S. Williams, do do



- 690 4 Fly Brushes and 6 Fans. Mrs. Janney, Fallsington, Pa., maker.  
 691 Lot Silver Ware. Conrad Bard & Son, Philada. do  
 692 2 Portable Extempore Cook Gas Operators. Chas. Parham, Phila. Maker.  
 693 Portrait Henry Clay. C. Youngler Haynes, Phila. Maker.  
 694 4 Samples Oil Cloth. J. S. Depuy & Son, do do  
 695 Carpet Stretcher. W. E. Vanderford, do do  
 696 Patent Piston. Touchstone & Clark, do J. H. Clark.  
 697 Case Books. S. F. Kerns, Phila. Maker.  
 698 Crayon Drawing. A. W. Janvier, Phila. S. M. Palmer.  
 699 Gilt Frame. J. S. Earle, do Diligent Engine Co.  
 700 Patent Melanotype Plate. Jas. Cremer, Phila. Maker.  
 701 Lot Planes. D. Colton, do do  
 702 Large Bird Cage. E. Mosemann, do do  
 703 Design Steeple Engine, U. S. Mint. J. Smith, Jr., Phila. Maker.  
 704 Fancy Embossed Frame. Miss E. Johnson, do do  
 705 Case Furniture Polish. Stephen Davis, do do  
 706 Fancy Picture. Miss C. Johnson, do do  
 707 Map of the World. R. L. Barnes, do do  
 708 Oriental Painting. Mrs. E. A. Hankins, do do  
 709 Card Patent White-Wash Brushes. E. Clifton, do do  
 710 2 Chair Covers Embroidered. Miss E. Johnson, do do  
 711 Bronze Frame. A. H. Powell, do do  
 712 Case Newall's Portraits. R. Newall & Co., do do  
 713 Vase Wax Flowers. Miss Cady, Philadelphia, maker.  
 714 Piano Forte. Neill, Duross & Co., Baltimore, do  
 715 Happy Uncle Tom's Shoe. Farley, Morrison & Co., Mass. Whelan & Co.  
 716 Masonic Frame. J. Cowpland, Philadelphia. J. C. Cowpland.  
 717 3 Frames Lithographic Checks, Notes and Bonds. William Mann, 34 So. 3d St., Philadelphia, maker.  
 718 2 Plume Mirror Fly Brushes. J. Wilt, Philadelphia, maker.  
 719 Ivory Image and Case. Harvey Ford, do do  
 720 2 Frames Sewing Machine Embroidery. Miss H. Tupman, California. W. De Young.  
 721 Bed Quilt, Odd Fellows' Delight. Mrs. C. Wheeler, Philad., maker.  
 722 2 Specimens Quilting. A. C. Bryson, do do  
 723 Lot Needlework. Mrs. Heiler, do do  
 724 Pair Epaulettes. H. Korn, do do  
 725 Case Ladies' Wrappers, etc. Mrs. L. Spooner, do do  
 726 Shell Work Box. Mrs. E. Levy, do do  
 727 3 Piano Fortes. T. Gilbert & Co., Boston. D. H. Shirley.  
 728 1 Model Piano Forte Action. D. H. Shirley, Boston, maker.  
 729 Portrait Dr. Jayne. E. D. Marchant, Philadelphia.  
 730 do S. K. Hoxie. do do  
 731 Case Fife's Oblique Gold Pens. Jones & Morgan, Phila.  
 732 Patent Egg Beater. Reip & Collier, Baltimore. G. H. Metz.  
 733 Specimen Ornamental Frame. J. S. Earle, Philadelphia. America Hose Company.

- 734 Specimen Copper, Silver and Lead Ore. Phila. R. O'Neill.  
 735 do Parchment Paper. J. M. Willeox & Sons, Philad., makers.  
 736 3 Samples Lubricating Oil. Martin Drake, New York. J. P. Martin.  
 737 Portable Gas Lamp. Dr. Englebrecht & Plant, do do  
 738 Conical Damper. Dr. Englebrecht & Nye, do do  
 739 Model Cottage. J. J. Levy, Philadelphia, maker.  
 740 Invoice Polishing Powder. Wm. Humphries, Savannah, Georgia.  
 741 2 Frames Card Writing. Mooney, Phila. B. B. Euston, Phila.  
 1101 1 Figure of a Friend. Mr. Fergus, West Chester. M. B. Thomas.  
 1102 1 Paging Machine. Doane & Co., N. Y. Makers.  
 1103 1 Patent Revolver. do do do  
 1104 1 Steam Register. do do do  
 1105 1 Bow Gun. E. Amsetta, Phila. M. Mershon.  
 1106 1 Model R. R. Break. P. Hibbs, Bucks Co. M. Mershon, Phil.  
 1107 1 Model Heater. J. Reilly, Phila. M. Mershon.  
 1108 1 Double Action Lift and Force Pump. W. C. & J. S. Burham,  
 N. Y. W. L. Gilroy, Phila.  
 1109 3 Faney Signs. G. B. Nichols, Phila. Maker.  
 1110 1 Faucet Fitter. S. C. Clark, Camden, N. J. Maker.  
 1111 1 Monochromatic Painting. Miss Gilroy, Phila. do  
 1112 1 Specimen Pipe Ore. C. B. Campbell & Co., do do  
 1113 1 Lot Wooden and Willow Ware. J. H. Allen & Co., Phila., Makers.  
 1114 1 Sample Broad Pruning Shears. H. A. Dreer, do  
 1115 1 Specimen Ivory Statuary. Harvey & Ford, Phila. Makers.  
 1116 2 Apple Parers. Sargent & Foster, Phila. W. S. Fletcher, Phila.  
 1117 1 Patent Sash Fastener. E. McClain, do. C. F. Fisk, Phila.  
 1118 1 Box Bricks. W. W. Smedley, Bridesburg. Maker.  
 1119 1 Breast Drill. C. B. Crossman, Phila. Maker.  
 1120 1 Pat. Harrow. Gourley Patent, Winchester, Va. G. P. Meteer, Phi-  
 ladelphia.  
 1121 1 Detachable Shaft Coupling. Peter Teal, Phila. Maker.  
 1122 1 Patent Air-Tight Hydrant and Wash Basin combined. J. L. John-  
 son, Maker.  
 1123 1 Rotary Pump. C. C. Alden, Phila. Maker.  
 1124 1 Lot Wrought Nuts. Brayton Wrought Iron Manufacturing Co.,  
 N. Y. Lyman & Bunting, Phila.  
 1125 6 Silvered Glass Curtain Pins. Silver Glass Co., N. Y. Lyman &  
 Bunting, Phila.  
 1126 5 Vault Lights. G. R. Jackson & Co., N. Y. Lyman & Bunting, Phil.  
 1127 2 Seven Octave Pianos. W. Knabb & Co., Baltimore. Makers.  
 1128 1 Horse Collar Block. W. H. Bustin, Watertown, Mass. Maker.  
 1130 1 Frame Cantelope Seed Work. Miss Antonio, Phila. Maker.  
 1131 1 Square and Triangle. R. Newshan, Phila. W. H. Merriek, Phila.  
 1651 2 Hot Air Furnaces. S. McFerran, Philadelphia, maker.  
 1652 Ornamental Iron Bedstead. do do do  
 1653 Locomotive Head Light. D. D. Miller, New York. Pratt & Free-  
 man, Philadelphia.  
 1654 2 Locomotive Head Lights. Radley & Hunter, do do  
 1655 1 do do do J. A. Williams, Utica, do

- 1656 1 Steam Pump Fire Engine. Taylor, Campbell & Co., Brooklyn.  
James E. Thorp, N. Y.
- 1657 1 Fire Board Stove. Morris & Co., 59 North Sixth Street, makers.
- 1658 1 Hot Air Cooking Range. do do do
- 1659 1 Bath Boiler. do do do
- 1660 1 Hot Air Furnace. A. H. Bartlett, N. Y. T. Murray, Seventh and  
Chestnut Streets.
- 1661 1 MacGregor's Heater. Chadwick & Brother, Philadelphia, makers.
- 1662 1 do Portable Heater. do do do
- 1663 1 do Dining Room Heater. Chadwick & Bro. Phila. do
- 1664 1 Dining Fire-Board Stove. do do do
- 1665 1 American Range. Bristow & Co., Providence. Chadwick & Bro.,  
Philadelphia.
- 1666 1 Hayes' Ventilator. Chadwick & Bro. Philad. do
- 1667 1 Siddell's Self-Cleaning Furnace. J. Siddell, New York, maker.
- 1668 1 do Tubular Heater. do do Henry J. White.
- 1669 1 Hot Air Range. Henry J. White, Philada. do maker.
- 1670 1 Parlour Heater. J. Siddell, New York, do do
- 1671 1 Flat Iron Heater. Davey & Co., Troy, N. Y., do do
- 1672 1 Lumber Cart. R. B. Seott, Philadelphia, maker.
- 1673 1 Cart. do do do E. F. Scott.
- 1674 1 Jackson Patent Detachment Safety Cabin. W. R. Jackson, Bal-  
timore, maker.
- 1675 1 Ryan's Self-Conneeting and Detaching Car Couplings. Ryan &  
Griffin, Wilmington, Del., makers.
- 1676 1 Model Roof. H. M. Warner & Co., Philadelphia, makers.
- 1677 1 Hand Power Drilling Machine. R. Wilson, Milton, Pa., maker.
- 1678 Lot Fire Brick and Tile. Mueller & Newkumet, makers.
- 1679 1 Fire Hose Carriage. J. Young & Sons, Philadelphia, makers.
- 1680 1 Cedar Tub. J. Amos & Son, do do
- 1682 1 Patent Turning Lathe. J. H. Gould, do do
- 1683 2 Cook Stoves. A. Gleason, do do
- 1684 2 Gas Stoves. do do do
- 1685 1 Drug Mill. B. Swift, New York. J. G. Richardson.
- 1686 1 Safety Guide Railway. W. D. Bates, Philadelphia, maker.
- 1687 1 Model Apparatus for Steam Boilers. J. Fricke, do do
- 1688 1 Chronometer Engine, (Reed Patent.) Reed & Burbeck, Jersey  
City. W. B. Levan.
- 1689 1 Clark's Steam and Fire Regulator. A. Campbell, maker, N. York.
- 1690 1 Eddy's Scroll Chuck. E. Eddy, maker, New York. A. Campbell.
- 1691 1 Portable Four Horse Power Farm Engine. A. L. Archambault,  
Philadelphia, maker.
- 1692 1 Dove-Tail Mortising Machine. J. G. Baker & Co., Phila., makers.
- 1693 1 Coil Iron. C. E. Smith & Co., Philadelphia, makers.
- 1694 1 Last Machine. J. Russell. Garrett Vansant, Phila.
- 1695 1 Patent Brick Machine Model. Isaac Harman, Schuylkill County.  
H. Howson, Philadelphia.
- 1696 1 Rope Machine. Mower & Woodworth, Boston, makers.
- 1697 1 Twine do do do do

- 1698 2 Hand Brick Presses. Samuel P. Miller, Philadelphia, maker.  
 1699 1 Hand Brick Press. do do  
 1700 Invoice Iron Railing, Columns and Statuary. W. P. Hood, Phila. Maker.  
 1701 Iron Arbour. Garland & Story, Phila. Makers.  
 1702 Lot Stoves. North, Chase & North, Phila. B. Bardsley, Phila.  
 1703 1 Rockafellow's Combd. Mower and Reaper. Rockafellow & Howell, Phila. C. Bradfield, Phila.  
 1704 1 Pat. Child's Carriage. J. & C. Berrian, N. Y. J. H. Gould, Phila.  
 1705 1 Model Washing Machine. E. Lukens, Phila. Maker.  
 1706 Lot Seales. Fairbanks & Ewing, Phila. Makers.  
 1707 1 Model of a House. A. W. Haworth, Phila. Maker.  
 1708 1 Screw Cutter. Nelson Barrows, Phila. Maker.  
 1709 2 Fan Blowers (Alden's.) M. Alden, Phila. Maker.  
 1710 1 Wheel Side and Boxes. " "  
 1711 1 Coneave Washing Machine. H. D. Cooper, Phila. Maker.  
 1712 3 Portable Ironing Tables. " " "  
 1713 2 Cochrane's Patent Hydrants,—non-wasting and non-freezing. W. L. Gilroy, Phila. See Advertisements, p. 13, for description.  
 1714 1 Model Brig. T. Davidson, Jr., Phila. Maker.  
 1715 1 Cedar Tank. G. J. Burkhardt & Co., Phila. Makers.  
 1716 1 Rail Road Car Ventilator. S. McClellan, " H. S. B. Lewis, Phila.  
 1717 1 Perkenpine's Axle Box. E. R. Perkenpine, Phila. Maker.  
 1718 3 Tin Milk Churns. Edward Evans, " "  
 1719 1 Model Sample Slating. Harford Manufacturing Co., Md. J. L. Taylor, Phila.  
 1720 1 Panel Vee. Yellow Spring Co., Ohio. Thompson & Babbit, Phila.  
 1721 Brick Machine Model. Jas. A. Hammer, Reading, Pa. Henry Kimber.  
 1722 1 Ward's Self-Acting Car Coupling. J. C. Ward, Phila. Maker.  
 1723 1 Model City Rail-Way. D. D. Badger & Co., N. Y. John A. Gendell, Phila.  
 1724 1 Washing and Drying Machine. H. N. Black, Phila. Black, Pearson & Taylor.  
 1725 1 Lyons' Lightning Rod. Lyons, Wilmington, Del. Chadwick & Bro. Phila.  
 1726 1 Bath Boiler. John Myers, Phila.  
 1727 1 Locomotive Model. W. Parrins, Phila. B. C. Street, Phila.  
 1728 1 Hoop-Splitting Machine. American Hoop Machine Co., Fitchburg, Mass. J. Phillips, Mass.  
 1729 1 do Shaving " " "  
 1730 1 Planetary Steam Engine. Kite & Co., Phila. J. Black, Mass.  
 1731 3 Ratchet Handle. G. H. Pallott, Boston. H. W. Lindelaeh, N. Y.  
 1732 3 Banister Washboard. H. C. Hatch, Stafford, N. H. J. H. Allen & Co.  
 1733 2 Transversed Corrugated Wash Boards. J. Kelch, Waterloo, N. York.  
 1734 1 Case Maker's Lathe. H. H. Smith, Philadelphia, maker.  
 1735 1 Jeweler's Rollers. do do do  
 1736 Lot Cottage Furniture. Courtney & Willets, do do



- 1737 1 Corn Planter. J. D. Jeffries, Phila. Maker.
- 1738 1 Stubblefield's Steam Gauge. Albertson & Douglass' Machine Company, New London. W. B. Le Van, Philadelphia.
- 1739 1 Schaffer's Steam Gauge. Harrison, N. Y. W. B. Le Van, Phila.
- 1740 A. Schmidt & Co.'s Steam Gauge. A. Schmidt & Co., New York. W. B. Le Van, Philadelphia.
- 1741 1 Improved Maximum Hand Gauge. Harrison, N. York. W. B. Le Van, Philadelphia.
- 1742 1 Improved Mercury Gauge. Wm. Gee, do do
- 1744 1 Pall or Ratchet Wrench. W. B. Le Van, Phila. do
- 1745 1 Screw Cutter. Nelson Barrows, do do
- 1746  $\frac{1}{2}$  Bbl. Buckwheat. Wilson Ager, Columbia. Lefevre, Black & Co. Philadelphia.
- 1747 3 Bbls. Flour. Union Mills, Columbia County. J. C. Stockton, Phila.
- 1748 1 Decoy. R. G. Wilkins, Philadelphia. E. P. Davis, do
- 1749 1 Yacht Model. Andrew Luffbary & Co., Phila. Makers, Pa.
- 1750 1 Skeleton Boat. " " "
- 1751 2 Sides Sole Leather. George S. Downing & Son, Wilmington, Del. Makers.
- 1752 Agricultural Implements. Charles Bradfield, Phila. Maker.
- 1753 Invoice Machines, &c. Stowe Manufacturing Co., Plantersville, Conn. N. Trotter & Co., Phila.
- 1754 1 Clover Seed Gatherer. Joshua Taylor, Phila. Maker.
- 1755 3 Bundles Brooms. S. G. & H. Moffitt, " "
- 1756 1 Model Farm Flour Mill. Rogers & Boyer, " "
- 1757 1 Farm Mill. " " "
- 1758 2 Gothic Corn Shellers. " " "
- 1759 1 Mowing Machine. " " "
- 1760 1 Spice Coffee Mill. Charles Shaw. " "
- 1761 1 Model Mowing Machine. A. Herman. Camden, "
- 1762 1 Model Yacht. Godfrey Krause, Phila. W. Y. Heberton, Phila.
- 1763 1 Locomotive Head Light. D. D. Miller, N. Y. Pratt & Freeman, Phila.
- 1764 1 Mercurial Steam Gauge. Hurford & Feast, Camden, O. " "
- 1765 Lot Brooms. Benj. H. Turner, Phila. Maker.
- 1766 Lot Brushes. " "
- 1767 1 Rocking Chair & Work Stand. Chas. Bosse, Phila. Maker.
- 1768 Lot Cedar Ware. L. M. Leyser, " "
- 1769 1 Improved Hydrant. C. J. Cowperthwaite, Phila. W. Cowperthwaite, Phila.
- 1770 1 Device preventing damage by water. Thos. Estlack, Phila. Maker.
- 1771 1 Wagner's Adjustable Reciprocating Saw. T. Mason, Phila. J. B. Inlay, Phila.
- 1772 1 Model Blower and Pumping Machine. J. P. Ross, Lewistown, Pa. Maker.
- 1773 1 Model Upright Engine. G. C. Hawkins, Phila. C. P. Hawkins, Phila.
- 1774 1 Silver's Marine Governor. T. W. Mason, Phila. Thos. Silver, Phila.
- 1775 1 Trotting Wagon. J. S. Collins & Son, Camden, N. J. Makers.
- 1776 1 Turned Centre Table and Fruit Dish. J. Hoover, Phila. Maker.
- 1777 1 Case Lasts for Stitching and Clamping Boot Trees. George Munro, Phila. Maker.
- 1778 1 Invoice Seales. Abbott & Co., Phila. Makers.



- 1779 Invoice Agricultural Implements. D. Landreth & Son, Phila. Makers.  
 1780 1 Pedestal Register. Tuttle & Baily, N. Y. Chadwick & Bro., Phila.  
 1781 1 Patent Street-Sweeping Machine. King & Dorsey, Phila. King & Lyneman, Phila.  
 1782 1 Barrel Flour. H. N. Black. Maker.  
 1783 1 Coal Sieve, with Supplementary Grate. B. F. Feoring, Phila. Maker.  
 1784 2 Bird Cages. S. Gunther, N. Y. J. Evans, Phila.  
 1785 1 Model Brick-Making Machine. C. Carnell, Phila. Maker.  
 1786 1 Revolving Oil Cup. J. D. Custer, Norristown. “  
 1787 2 Refrigerators. Murphy & Yarnall, Phila. “  
 1788 1 Tentering Machine. H. B. Fiske, Phila. W. H. Butterworth, Phil.  
 1789 Rotary and Reciprocating Pump. Cullingworth & Muldoon, Manayunk. J. J. Thomas, Manayunk.  
 1790 2 Models Patent Soap-Cutting Machine. Van Hagan & Co., Cincinnati, O., Makers.  
 1791 2 Models Improved Window Sash. C. S. Weaver, Phila. Maker.  
 1792 Bailey's Patent Lamp Burner. Y. Bailey, Phila. J. B. Inlay, Phila.  
 1793 1 Can and 4 Safety Lamps. S. E. Winslow, Phila. Maker.  
 1794 1 Ash Sifter. E. H. Decmer, “ “  
 1795 1 Patent Casement Sash. G. M. Ramsey, N. Y. B. Cox, Phila.  
 1796 1 Model Brick Machine. N. B. Aiken, Phila. S. Ustick, Phila.  
 1797 1 Drill. L. B. Griffith, Phila. G. W. Auderson, Phila.  
 1798 1 Model Steam Engine. Mason, Phila. H. Matlack, Phila.  
 1799 Meat Cutter. L. B. Griffith. Maker.  
 1800 Model for Bridge. A. Catnach, Phila. Maker.  
 1801 Child's Tire Wheel. S. Morris, “ “  
 1802 2 Spring Beds and Bolster. J. E. Cresson, Phila. Maker.  
 1803 Soap Stone Sink and Griddles. E. Pratt, Phila. Maker.  
 1804 Skiff Model. J. Cornell, Phila. W. Morrison, Phila.  
 1805 Reaction Pump. A. L. Archambault, Phila. W. B. Archambault, Phila.  
 1806 Child's Carriage. J. Ashenfelter, Phila. Wm. M. Carter, Phila.  
 1807 Model Brick Machine. J. Coltin, Phila. E. Wiltbank, Phila.  
 1808 1 Granite Lamb. Barker, Wright & Co., Makers.  
 1809 Model Rotary Card Press. F. P. Wallis, Phila. Maker.  
 1810 Omnibus Register. “ “ “  
 1811 4 Baskets. Fairbanks & Hill, Phila. J. H. Allen & Co., Phila. Makers.  
 1812 Lot Cedar Ware. E. Murdoch, Jun., Balt. “ “  
 1813 Lot Corn Brooms. J. H. Allen & Co., Phila. Makers.  
 1814 2 Fire Proof Safes. Farrels & Herring, “ “  
 1815 1 Paging Machine. R. S. Halls, Worcester, Mass. C. Williams, Phila.  
 1816 1 Smoke Pipe. H. B. Lyons, Phila. Maker.  
 1817 1 Bed Quilt. M. Early, Phila. W. H. Early, Phila.  
 1818 1 Low Top Buggy. Laue & Co., Phila. Makers.  
 1819 1 Case Morocco. J. H. Hummel, Phila. J. J. Sowers, Phila.  
 1820 Double Lift and Force Pump. W. H. Harrison, Phila. Maker.  
 1821 1 Chasing Lathe. R. Dolby, “ “  
 1822 2 Seed Presses. E. Kalenberg & Co., “ “  
 1823 1 Hydrant. A. J. Baker, Balt. Jas. Cochrane, Balt.  
 1824 1 Marble Chest Table Top. E. Young, Phila. Francis, Phila.  
 1825 1 Grindstone. J. E. Mitchell, Phila. Maker.

- 1826 Invoice Case Reeds. Beck & Doebely. Phila. Makers.
- 1827 Lot Adjustable Pullies. J. T. Sutton & Co., Phila. J. Trempers, Phila.
- 1828 1 Tennessee Marble Mantle and Table Top. E. K. Hess, Phila. M. W. Dickerson, Phila.
- 1829 1 Apple Cutting Machine. Larke & Milnor, Phila. J. B. Smith, Phila.
- 1830 6 Chairs. G. M. Carter, Phila. Maker.
- 1831 Improved Circular Saw. N. Barlow, N. Y. Maker.
- 1832 Model Marble Sewing Machine. J. Ashenfender, Phila. S. A. Salter.
- 1833 Hawkins' Universal Patent Chuck. E. Hawkins, Windsor Locks, Mass. A. Gavitt, Phila.
- 1834 Straw-Cutting Machine. W. Colliday, Phila. Maker.
- 1835 2 Bundles Leather. C. B. Williams, " "
- 1836 Improved Binding Machine. E. A. & C. Killburn, Burlington, Vt. C. Buckingham, Phila.
- 1837 1 Billiard Table. Stout & Burch, Phila. Makers.
- 1838 1 Fancy What-Not. John Henry, " "
- 1839 Bundle Shaved Harness. J. Boustead, Phila. Maker.
- 1840 Barrels Flour. Tennessee and Central Mills, Phila. Wright & Co.
- 1841 1 Self-Acting Fire Extinguisher. R. B. Armitage, Phila. Maker.
- 1842 Invoice Improved Carriage Fixtures. S. K. Chew, N. Y. Maker.
- 1843 Fire Escape Ladder. G. W. Keller, Phila. Maker.
- 1844 1 Hay Grain Rake and Seed Sower. Wrاندall & Pratt, Phila. Makers.
- 1845 Ketcham's Mowing Machine. Howard & Co., Buffalo, N. Y. Paschall & Morris.
- 1846 6 Sides Shoe Skirting. W. Geyer, Phila. G. Williams.
- 1847 1 Globe Grain and Spice Mill. A. Attwood & Co., Troy, N. Y. A. K. Shriver.
- 1848 3 Steam Gauges. Alkraft & Whiteman, Phila. Makers.
- 1849 Liberty Steam Engine. J. McCay, " "
- 1850 Lot Furniture. G. J. Henkels, " "
- 1851 Office Desk. D. K. & S. D. Large, " "
- 1852 Apparatus for Distributing Water. A. Stone.
- 1853 4 Pieces Hemp Hose, and 6 pieces Flexible Tubing. A. Stone. Maker.
- 1854 1 Grass and Grain Cutter. W. W. Kerport, Salem, N. J. Maker.
- 1855 Gas Burner. Weymer & Bro., Phila. Makers.
- 1856 Corn Sheller. H. E. Smith, Phila. Maker.
- 1857 1 Scroll Saw. L. Wright, Newark, N. J. Maker.
- 1858 Improved Bench Plane and Iron. H. Harris, Newark, N. J. Maker.
- 1859 Rope Machine. T. G. Boone, Brooklyn, N. Y. Spear & Boone, N. Y.
- 1860 Window Frame. A. Spear, Passaic, N. J.
- 1861 3 Velocipedes. W. Queen, Phila. Maker.
- 1862 2 Rolls Hair Felting. H. W. Miller, Phila. Maker.
- 1863 Self-Loading Cart. Z. Butt, Lincolnton, N. C. H. Howson, Phila.
- 1864 Lightning Rod. A. C. Brown, Phila. Maker.
- 1865 4 Hydraulic Rams, &c. A. Gawthraup, Wilmington, Del. A. C. Brown.
- 1866 6 Brass Centre Pumps. Downs & Co., N. Y. A. C. Brown, Phila.
- 1867 Apple Paring Machine. Goodman, New Haven, Conn. "
- 1868 Improved Gas Pipe Tongs. S. Hardy, Phila. Bardsley.
- 1869 1 Dog Skin. A. Davison, Phila. G. Naulty.
- 1870 Patent Bedstead. Smith & Pugh, Phila. Makers.

- 1871 Patent Double Acting Ventilator. Geo. W. Thatcher, Phila. Maker.  
 1872 Stand Candle Moulds. J. Calverly, Phila. L. Calverly.  
 1873 Churning Machine. W. S. Reinerts, Phila. Maker.  
 1874 Dentists' Operating Chair. Kite & Kersey, Phila. Makers.  
 1875 Mower and Reaper. J. Manning, Phila. Maker.  
 1876 Lot Brooms. Chipman & White, Phila. Makers.  
 1877 Blooms' Patent Math. Lock. Blooms, Phila. C. Bradfield.  
 1878 Young America Feed Cutter. C. Bradfield, Phila. Maker.  
 1879  $3\frac{1}{2}$  dozen Sides Morocco. Samuel Buck, Phila. Maker.  
 1880 Gum and Leather Belting. White & Bro., N. Y. Billington & Emery.  
 1881 15 Child's Carriages. Bushnell & Tull, Phila. Makers.  
 1882 3 boxes Kindling Wood. Connover & Reanney, Phila. Makers.  
 1883 1 Wood-Planing Machine. Grey & Wood, Boston. J. M. Hollinghead, Phila.  
 1884 Tenoning Machine. J. A. Fey & Co., Worcester. J. M. Hollinghead, Phila.  
 1885 Brass finish Lathe. Bacon & Hubbitt, Boston. "  
 1886 Patent Cutting Machine. Cutting Machine Co., Boston. "  
 1887 Revolving Last Cutter. H. H. Green, Springfield. C. Clark.  
 1888 Iron-Planing Machine. Washburn & Withing, West Stafford, Conn. J. M. Hollinghead.  
 1889 J. P. Hays' Welcome Cooking & Heating Range. J. P. Hays, Phila. Maker.  
 1890 Self-Igniting Hydrogen Gas Apparatus. J. P. Hays.  
 1891 J. Wright's Patent Smoke House. J. Wright, Wilmington. John A. Griffin.  
 1892 2 Hot Air Furnaces. Marklee & Thatcher, N. Y. Peters & Johnson.  
 1893 2 " " Parlour Stoves. " " " " "  
 1894 Invalid Chair. J. S. Scattergood, Phila. Maker.  
 1895 Fine Trunk. J. Unruh, Phila. Maker.  
 1896 Patent Printing Press. G. P. Gordon, N. Y. H. Evans, Phila.  
 1897 2 Dempfer's Patent Fan Blowers. S. Kisterbock & Son, Phila. Makers.  
 1898 Miniature Stove. B. F. Foering, Phila. Maker.  
 1899 5 Blinds. A. Britton & Co. " "  
 1900 Machine Brush. G. B. Eggleston. " "  
 1901 G. J. Naylor's Patent Scrub Brush. G. J. Naylor, Phila. Maker.  
 1902 Sole Dry Hard Leather. J. Hoffman, East Waterford. Pritchett, Baugh, & Co.  
 1903 Lot Galvanized Sheet and Rod Iron. McCulloch & Co., Phila. Makers.  
 1904 Invoicee Machines. T. B. Woodward, Phila. Maker.  
 1905 2 Book Folding Machines. Chambers, Bro. & Co., Phila. Makers.  
 1906 5 Iron Vices and two Wood do. Yellow Springs Vice Co., Yellow Springs, O. Makers.  
 1907 7 Blinds and 6 Cornices. R. W. Kensil, Phila. Maker.  
 1908 6 Harris' Patent Sifting Machines. S. Harris, Phila. J. Wilcox.  
 1909 Mason's Patent 5 min. Cream Freezer. H. B. Mason, Sunbury. J. Wilcox.  
 1910 Iron Bedstead. J. Wilcox, Phila. Maker.  
 1911 2 Sets Wright's Patent See. Bed Springs. J. Wilcox, Phila. Maker.  
 1912 Improved Gas Stoves. J. Wilcox, Phila. Maker.  
 1913 Portable Gas Furnace, " " "

- 1914 Miniature Hook & Ladder. E. P. Hipple, Phila. Maker.  
 1915 5 Boy's Sledges. N. Stratton, New Haven. J. H. Allen & Co.  
 1916 1 Ship. C. Green, Phila. Maker.  
 1917 1 Quilting Frame. J. McDevitt, Phila. Maker.  
 1918 Ship. Calvin Meder, Phila. Maker.  
 1919 3 Ventilators. H. J. White, Phila. Maker.  
 1920 1 Hot Water Furnace. Morris, Tasker & Co., Phila. Makers.  
 1921 Lot Lap Welded Flues. " " " "  
 1922 " Gas-fitters' Tools. " " " "  
 1923 Samples Tubing. " " " "  
 1924 2 Boynton Hot Air Self-Cleaning Heaters. A. W. Rand, Phila. Maker.  
 1925 2 L. W. Leeds' Water Self-Regulating Heaters, " " "  
 1926 4 Hays' Ventilators & Chimney Caps, " " "  
 1927 Lot Hot Air Registers & Soap Stone, " " "  
 1928 " Taps & Dies. Nelson Barrows, Phila. Maker.  
 1929 " Brass Work. Pike, Green & Co., " "  
 1931 " Sample Haul Rail. H. W. Evans, " "  
 1932 Planing Machine. Bement, Dougherty & Thomas, Phila. Makers.  
 1933 Improved Hanger. " " " " "  
 1934 Slide Rest. " " " " "  
 1935 Screwing Machine. " " " " "  
 1936 Engine plate pulp machine. 1 dress do. N. Gavitt, " G. Gavitt.  
 1937 15 Chairs. 1 Settec. Wisler & Bro., " Makers.  
 1938 Steam Engine. E. Williams, " "  
 1939 Child's Coach & Rocking Horse. C. Asker & Son, " "  
 1940 Rotary Knitting Machine. W. P. Uhlinger, " "  
 1941 2 Ratchet Drills. Chas. B. Crozman, " "  
 1942 Friction Coupling Machine. Francis Coleman, " "  
 1943 Patent Bedstead Joint. C. B. Eastman, " "  
 1944 Jacquard Machine. W. P. Uhlinger & Co., " "  
 1945 Mechanic's Companion. E. Bliss & Co., Newark. H. Harris.  
 1946 3 Steam Engines, 1 Gas Valve, and 1 Testing Machine. Merrick & Son,  
 Makers, Phila.  
 1947 1 Lot Galvanized Steam Gas Pipe. Morris, Tasker & Co., Makers,  
 Phila.  
 1948 1 Tyre Coil, " "  
 1949 1 Single, and 1 Double-Guard Screwing Machine, " "  
 1950 1 Sewing Machine. Wood & De Vaughn, Phila. Makers.  
 1951 1 Model Yacht. W. R. Jones, " "  
 1952 1 Washing Machine. Mathias Temple, Phila. Maker.  
 1953 3 Coal-Gas Burners. J. S. Clark, " "  
 1954 1 Double Lined Portable Heater. J. S. Clark, Phila. Maker.  
 1956 Lot Furniture. Register & Bell, " "  
 1957 1 Pat. Self-Supporting Scaffold. A. C. Funston, " "  
 1958 1 Leather Travelling Bag. C. W. Unruh, " "  
 1960 1 Cumming's Carriage Hub Improved. Thos. B. Woodward, Phila.  
 Mayhew & Bro., Lancaster.  
 1961 1 Glass Case Boots and Shoes. Marshall & Mann. Makers, Phila.  
 1963 40 Boxes Candles, 1 Rock and 2 Eagles, Pat. Tallow. Garci & Co.  
 Makers, Phila.



- 1964 1 Model Steam Engine. H. Mason, Maker. A. Tatem, Phila.  
 1965 1 Patent Street Rail. C. McEakin, W. P. Maker, Phila.  
 1966 1 Bundle American Gum Elastic Coated Iron. W. Butcher & Son. Makers, Phila.  
 1967 1 Lot American Gum Elastic Coated Iron and Pipes. W. Butcher & Son. Makers, Phila.  
 1968 2 Lot Paints. W. Butcher & Son. Makers, Phila.  
 1969 1 Lot Slates. Harford Slate Co., Harford, Md. J. S. Taylor, Phila.  
 1970 1 Trunk. Matthew Goss. Maker, Phila.  
 1971 1 Lot Gas Pipe. Murphey & Allison. Makers, Phila.  
 1972 1 Model Pavement Improvement. J. Yocum. Maker, Phila.  
 1973 3 Tube Rotary Pumps. Asa Farr, Jr., Phila. J. Young, Brooklyn, N. York.  
 1974 1 Fly Trap. Gilbert & Jumper, New Haven, Ct. C. Heit, Phila.  
 1975 2 Hand Printing Machines. J. W. Cooper. Maker, Phila.  
 1976 1 Patent Self-Acting Farm Gate. C. Dunbar. C. L. Lockwood, Phila.  
 1977 1 Lot Patent Wire Rope. J. A. Robeling, Trenton, N. J. Morris, Jones & Co.  
 1978 1 Improved Rotary Engine Hinge Valve. J. S. Kite. J. H. Warrington, Phila.  
 1979 1 Case Diamond Straps. C. Y. Haines & Co. Makers, Phila.  
 1980 50 Packages Pressed Flour, 50 Packages Buckwheat. H. W. & D. Hey. Makers, Phila.  
 1981 1 Pane Wrought Iron Vice. H. Wood, Phila. Maker.  
 1982 4 Bank Locks. J. H. Botterworth, Dover, N. J. G. W. Baldwin, N. York.  
 1983 2 Air Tight Coal Stoves. C. J. Lyndle. Maker, Phila.  
 1984 3 Portable Parlour Grates. " " "  
 1985 1 Orr's Original Patent Air Tight Wood Stove. C. J. Lyndle, Phila. Maker.  
 1986 1 Potato Digger. A. B. Hewlings, Phila. Maker.  
 1987 5 Planes. D. D. & P. Yarnall, do do  
 1988 1 Specimen Cannel Coal. Virginia. E. R. Morgan, Phila.  
 1989 2 Gas Self-Regulating Oil Cups and Gauges. W. H. Gee, N. Y. A. Campbell, Phila.  
 1990 1 Harrison Steam and Water Gauge. Harrison, N. Y. A. Campbell, Phil.  
 1991 5 Baxter's Wrenches. Baxter, Newark, N. J. do do  
 1992 1 Gee's Car Window Catch. W. H. Gee, N. Y. do do  
 1993 1 Wrought Iron Splice. Elwood Morris, Pa. Maker.  
 1994 2 Water Gauges. F. A. Hoyt & Co., Boston. J. L. Mitchell. Phil.  
 1995 1 Lot Brass Valves, Cocks, &c., for steam. Morris, Tasker & Co., Phil. Makers.  
 1996 1 Rotary Pump, Cast Iron Wagon Nuts, Cast Iron Planes. Seneca Falls, N. Y. Silsby, Mynder & Co.  
 1997 1 Bbl. Flour, 2 Bags Buckwheat. Allman & Zehnder, Phila. Makers.  
 1998 1 Bag Graham Flour. do do do do  
 1999 1 Harris Printing Press. Ruggles, Boston. G. S. Harris, Phila.  
 2000 1 Model Patent Ventilating Heater. John L. Kite, Phila. J. Walter, Chester Co.  
 2001 Power Loom. Samuel Eccles & Sons, Phila. Makers.  
 2002 Invoice Card Clothing. R. Kitson, Lowell, Mass. J. Armitage, N. Y.



- 2003 Cotton Picker. R. Kitson, Lowell, Mass. J. Armitage, N. Y.  
 2004 Model Stationary Steam Engine. H. Woernle, Phila. "  
 2005 Straw and Fodder Cutter. D. Cummings, Oswego, N. Y. W. H. Jones.  
 2006 Model Ice Boat. H. W. Brown, Phila. Maker.  
 2007 2 MacGregor Heating Stoves. Neman & Warnock, Phila. Makers.  
 2008 Parlor Cook Stoves. A. C. Barstow, Providence, R. I. Maker.  
 2009 Franklin Wood Stove. " " " "  
 2010 Office " " " "  
 2011 Portable Forge. F. P. Flagler, Peekskill, N. Y. Wm. Steffe.  
 2012 Diffusive Daylight Reflector. W. F. Pullinger, Beverly, N. J. Maker.  
 2013 " Gas Light " " " "  
 2014 4 Morning Star Cook Stoves. A. J. Gallagher, Phila. Maker.  
 2015 4 Sunrise Air-tight " " " "  
 2016 Model Boat. T. Wright, Phila. Maker.  
 2017 " Yacht. A. Luffbarry, Phila. Joseph Daly.  
 2018 3 Patent Churns. E. Spain, " Maker.  
 2019 2 Sides Wax Upper Leather. Chambers & Cattell, Phila. Makers.  
 2020 1 Corn Planter. R. Fenwick, Brooklyn. A. Speer, Phila.  
 2021 1 Window Frame. A. Speer, Passaic, N. J. A. Speer, Phila.  
 2022 Panel Wood Mouldings. M. C. Greer, Phila. Maker.  
 2023 Horizontal 25 horse power Steam Engine. Morgan & Orr, Phila. Makers.  
 2024 Invoice Cedar Ware. Geo. H. Spain, Phila. Maker.  
 2025 Arm Chair patent. M. Eberhard, " "  
 2026 Small Foot Lathe. W. S. Blumner, " "  
 2027 Dust tight Ash Sifter. O. W. Goodwin, " "  
 2028 Model Propeller. J. Z. A. Wagner, " "  
 2029 Oscillating Steam Engine. E. H. Wood, " "  
 2030 Clark's Pat. Water Feeder. P. Clark, N. York. Snow & Hood, Phila.  
 2031 Pat. Ash Coal Sifter. Jas. P. Fenuell, Phila. " " "  
 2032 Barrel Vinegar. E. Jones. " " "  
 2033 3 Steam Gauges. A. Schmidt & Co., N. York. A. Campbell, Phila.  
 2034 Lubricator. E. J. Becker, Baltimore. I. Cochrane, Baltimore.  
 2035 3 Rolls Sole Leather for Machine Belting. W. F. Forepaugh, Jr. Phil.  
 2036 Velocipede "Young America." Johu Cline, Phila.  
 2037 Patent Malt Kiln Flooring. R. M. Stewart, "  
 2038 " Reclining Chair. C. Goehmann, "  
 2039 Washing Machine, "Wisner's" patent. E. M. Heston, Phila.  
 2040 " " Winslow " " " "  
 2041 2 Machines for Fitting Barrels and Kegs. Jacob Fry, Athol, Mass.  
 Wm. Shaffer, Phila.  
 2042 2 Weissenborn Pat. Boiler Incrustation Preventer. E. W. Sargent, N.  
 York. S. F. Conover, N. Y.  
 2043 2 Barrels and 10 Small bags Flour. W. B. Thomas & Co., Philada.  
 Makers.  
 2044 Harris' Pat. Circular Saw. W. B. Aitken.  
 2045 2 Church Bells. Bernhard & Co.  
 2046 Soda Water Apparatus. "  
 2047 2 Pat. Enamelled Soda Water Fountains. "  
 2048 Washing Machine. E. H. Mitchell, Phila. Maker.  
 2049 Cabbage Cutting Machine. J. Butterfield, " " "  
 2050 Lot of Glue and Curled Hair. H. Gerker, Son & Co., "

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- 2051 Salamander Safe. (tested) Evans & Watson.  
 2052 " " " "  
 2053 3 " " (new) "  
 2054 " " with pat. bank lock. "  
 2055 Set Bank Vault door with " "  
 2056 Pat. Alphabetical Bank Lock. "  
 2057 " " " " "  
 2058 Bbl. Flour. Wash. Bishop, Springfield, Del. Co., Pa. Smedley & Rudolph, Phila.  
 2059 4 Pat. Power Looms. W. Benjamin & Co., N. York, Makers.  
 2060 Pat. Corpse Preserver. J. Good, Phila.  
 2061 2 Side Boards. Thomas & Nass, " "  
 2062 1 Miniature Steam Boat. W. H. Jackson, "  
 2063 Plate Press. Geo. C. Howard, Phila.  
 2064 2 Barker's Pat. Pumps, " " " Maule & Brother.  
 2065 2 Combined Work Table & Bedstead. C. Baum, " Maker.  
 2066 Oscillating Steam Engine Model. G. Hirsel, Wilmington, Del. Maker.  
 2067 Case Transfer Rods for Engravers. G. C. Howard, Phila. Howard & Norman, Makers.  
 2068 2 Model Sail Boats. R. G. Wilkins, " "  
 2069 1 " Launch " J. W. Blackmore, Phila. Maker.  
 2070 2 Chilson's Pat. Warming Ventilating Furnaces. Arnold & Wilson, Phila.  
 2071 1 Richard " Portable " A. C. Barstow, Providence, R. I. Arnold & Wilson, Phila.  
 2072 1 Chilson's " Trio Stove. Chilson, Gould, & Co., Boston.  
 2073 4 Enamelled Pat. Ventilators. Arnold & Wilson, Phila. Makers.  
 2074 6 " Slate Mantels. Penrhyn Marble Co., Boston, "  
 2075 7 " Parlour Grates. Bent, Griffith & Co., South Carver, Mass. Arnold & Wilson, Phila.  
 2076 Lot Pat. Hot Air Registers & Ventilators. Tuttle & Bailey, N. York. Arnold & Wilson, Phila.  
 2077 " Sheet Iron Ware. C. L. Porter, Phila. Maker.  
 2078 2 Quarter Bbl. Buckwheat Meal. Sterling, Wyoming Co., Pa. S. C. White & Bro. Phila.  
 2079 Walnut Secretary. J. T. Hammitt, Phila. Maker.  
 2080 2 Pat. Car Seats. " " "  
 2081 2 Baby Jumper Chairs. J. H. Stevens, Huntingdon, Mass. E. W. Carryl.  
 2082 1 Dressing Bureau. Sillyman & Kareher, Phila. Makers.  
 2083 1 Scale. Vergennes Scale Co., Vergennes, Vt. Lyman & Bunting, Phila.  
 2084 Sail Beat. R. G. Wilkins, Camden, N. J. W. McGonigal, Phila.  
 2085 Card Curtain Pins. New England Glass Co., Boston. Mussey & Monroe, Phila.  
 2086 1 doz. Glass Paper Weights. New England Glass Co., Boston. Mussey & Monroe, Phila.  
 2087 Hub Boring Machine. Dole, Silver & Feleh, Salem, Ohio. A. Herbert, Phila.  
 2088 Barrel Flour. Diver & Johns, Baltimore. J. B. Fenley, Phila.  
 2089 4 Bird Cages. A. Mindel, Phila. Maker. "

- 2090 1 Bundle Imitation Russia Sheet Iron. A. Wood, Phila. Maker.
- 2091 Specimens West's Pat. Galvanic Cement Roofing. W. R. & M'D. Cornell, Phila. Makers.
- 2092 3 Thompson's Oiling Patent. Thompson, Conn. W. R. & M'D. Cornell, Phila.
- 2093 2 Patent Chuck. J. R. Washburner, Conn. W. R. & M'D. Cornell, Phila.
- 2094 5 Pieces Belting. Thurlow, Hughes & Co., makers, Phila.
- 2095 Ball's Pat. Wrought Iron Cement Pipes. Pat. Water & Gas Pipe Co., Jersey City, N. J. D. Daten, Phila.
- 2096 Antifreezing Hydrant. Gebhard & Fields, Wilmington, Del. Makers.
- 2097 Pressure Water Wheel. " " " " "
- 2101 10 Flues, America Lap Welded. Seyfert, M'Manus & Co., Reading. Makers.
- 2102 1 20 Inch Lathe. W. Sellers & Co., Phila. Makers.
- 2103 1 Hoisting Machine, and Hangers for Shafting. W. Sellers & Co., Phila. Makers.
- 2104 1 25 Inch Planing Machine and Counter Hangers. W. Sellers & Co., Phila. Makers.
- 2105 Invoice Fire Brick and Tile. B. Kreischer and Nephew, N. J.

# ALMANAC. 1857. ALMANAC.

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1857.	SUNDAY.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.	1857.	SUNDAY.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
Jan....	4	5	6	7	8	9	10	July....	5	6	7	8	9	10	11
	11	12	13	14	15	16	17		12	13	14	15	16	17	18
	18	19	20	21	22	23	24		19	20	21	22	23	24	25
	25	26	27	28	29	30	31		26	27	28	29	30	31	
Feb....	1	2	3	4	5	6	7	Aug....	2	3	4	5	6	7	8
	8	9	10	11	12	13	14		9	10	11	12	13	14	15
	15	16	17	18	19	20	21		16	17	18	19	20	21	22
	22	23	24	25	26	27	28		23	24	25	26	27	28	29
March.	1	2	3	4	5	6	7	Sept....	30	31					
	8	9	10	11	12	13	14		6	7	8	9	10	11	12
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	22	23	24	25	26	27	28		20	21	22	23	24	25	26
	29	30	31						27	28	29	30			
April..	5	6	7	8	9	10	11	Oct.....	4	5	6	7	8	9	10
	12	13	14	15	16	17	18		11	12	13	14	15	16	17
	19	20	21	22	23	24	25		18	19	20	21	22	23	24
	26	27	28	29	30				25	26	27	28	29	30	31
May....	3	4	5	6	7	8	9	Nov. ...	1	2	3	4	5	6	7
	10	11	12	13	14	15	16		8	9	10	11	12	13	14
	17	18	19	20	21	22	23		15	16	17	18	19	20	21
	24	25	26	27	28	29	30		22	23	24	25	26	27	28
	31								29	30					
June...	7	8	9	10	11	12	13	Dec.....	6	7	8	9	10	11	12
	14	15	16	17	18	19	20		13	14	15	16	17	18	19
	21	22	23	24	25	26	27		20	21	22	23	24	25	26
	28	29	30						27	28	29	30	31		

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REPORT ON THE  
*Twenty-Fifth* Exhibition of  
AMERICAN MANUFACTURES,  
1856.





REPORT  
OF THE  
Twenty-Fifth Exhibition  
OF  
AMERICAN MANUFACTURES,  
BY THE COMMITTEE ON EXHIBITIONS.

JOHN E. ADDICKS, *Chairman.*

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The Committee on Exhibitions, in presenting their Report of the Twenty-Fifth Exhibition of American Arts and Manufactures, held by the Franklin Institute in the month of November, 1856, will preface it with but very few remarks, and those only that may be required for a proper understanding of the Report.

The Committee intended to have made many suggestions of the utmost importance to the Franklin Institute, in her position toward the American Mechanic, and indicate in what manner her power might be much increased, to do that good which it is her province to exercise for the promotion of the mechanic arts of our country; but feeling convinced that speedy and decided steps must be taken by our citizens at large, to place such conveniences for future Exhibitions at the disposal of the Institute, as shall equal the imperative demand for them, the Committee will take an early opportunity to bring this matter to the notice of the public, in a separate address, in greater detail than time or space will allow in this Report.

Our previous Exhibition was held in 1854; but owing to the destruction by fire of the Museum buildings in the month of July of that year, it was with great difficulty a suitable place for even a partial Exhibition could be procured; and the same difficulty continued the following year to such a degree, that much to the disappointment of the Committee and the members of the Institute, as well as the mechanical interest of our City and State, we were obliged, for the first time, for a long period, to omit holding our usual Annual Exhibition. This year the same misfortune seemed to threaten our best exertion to procure such accommodations as are required, until we were met and aided in our endeavors by the well-known liberality and energy of our esteemed fellow-citizen,

Dr. David Jayne. Thus the present, as well as the last Exhibition, could hardly have been held at all, had it not been that this gentleman furnished us for that purpose with one of his noble buildings, that adorn our city. A month before the opening of our last Exhibition, the massive walls of the splendid Hall in which it was held, had scarcely made their appearance above the ground, but the contract was made that we should have it on a certain date, and hundreds of masons, bricklayers, carpenters, plasterers, painters, &c. were at work throughout days and nights, until the building was finished, with almost the rapidity of the magic of Eastern story; and on the day and hour advertised by us, the Committee were receiving the contributions of the mechanics and manufacturers to one of the most successful Exhibitions ever held by the Institute. The Committee on Exhibitions at this time deem it but an act of justice to tender their sincere thanks to Doctor David Jayne, for the good faith and liberality he exercised to them.

The display, in many departments, far exceeding in superiority previous years, and in all, the quantity offered was much curtailed by the want of space to accommodate them: the buildings were crowded to their utmost capacity—too much so, in many departments, for a proper view of the merit of each separate article; but this, although a source of annoyance to all, is still not to be regretted, as it has convinced all parties that the period has arrived when the Institute should possess such a hall as will fully and fairly accommodate all future Exhibitions of American skill and labor.

At the invitation of the Committee, the Governor of our Commonwealth and the officers of his administration, the Mayor and officers of the City Government, the Councils and Judges of our City, and other distinguished gentlemen, paid an official visit to the Exhibition, and the Committee with pleasure attest to the gratification that was expressed by them, at the splendid display of domestic skill and industry offered to their inspection.

Invitations to visit the Exhibition were extended to various public institutions of our City, as well as to other persons; and the acknowledgment of the courtesy from some of them, is attached to this Report.

By a resolution of the Committee all schools, public or private, were admitted at a mere nominal price, five cents for each scholar, and teachers free; but we regret to say that but few schools took advantage of the liberality, extended, solely, with a view of benefiting the youthful mind.

We are glad to inform the members of the Institute that, notwithstanding the crowded state of the rooms by visitors, especially in the evening, yet no accident of any kind occurred, and all left the exit-door in safety. The Committee consider much of this most desirable result was owing to the well-regulated police force, who performed their duty under the direction of the Chairman, with fidelity and due courtesy in its performance. The Committee is much indebted to his Honor the Mayor, Richard Vaux, for the interest he felt in this department of our duty; and to aid us in it, we were furnished by him for the whole period of the Exhibition, with a portion of his reserved force, consisting of a sergeant and fourteen officers, placed under the orders of the Chairman, who now desires to testify to their general good behavior and faithful attention to their duty.

The Committee cannot close their remarks without expressing their great obligation to the Committee on Arrangements, who so much aided in the holding of the Exhibition, and to the ladies and gentlemen who acted as judges of the various deposits; their services were most valuable, and without their kind and faithful help our labors would have been in vain.

The learned and brilliant closing Address by our talented townsman, the Hon. Henry D. Gilpin, is attached to this Report. Praise on our part would be superfluous; the perusal of it will richly repay the reader.

It is supposed by many, if not most persons unconnected with the Franklin Institute, that the holding of these Exhibitions is of great pecuniary profit—but this is an error: some have occasioned positive loss, while but few have left a profit of a few hundred dollars. The present one, in which the receipts have exceeded any previously held, will about balance its cost. That this may be more readily understood, a condensed account of finance is attached; and it will be understood that no member of the Committee on Exhibitions or of any other of our Committees received any reward for their services; the object of the Franklin Institute, in the holding of Exhibitions of American Art and Manufactures is not gain in money, but that, in accordance with its title, it may “Promote the Mechanic Arts” of our country, by the display of its skill and labor, and the award of merit due to the competitors in this honorable race for distinction.

### *Statement of Receipts and Expenditures.*

#### RECEIPTS—

From Visitors, . . . . .	\$9029.74
Rent of Confectionery Room, . . . . .	150.00
Advertisements and Sales of Catalogues, . . . . .	198.99
Sale of Lumber, . . . . .	170.95
	<hr/>
	\$9549.68

#### EXPENSES—

Premiums, Printing, Clerks, Police, &c. . . . .	\$4045.81
Insurance, Labor, Lumber, Coal. &c. . . . .	2410.10
Rent, . . . . .	2000.00
Gas, . . . . .	896.26
	<hr/>
	9352.17
	<hr/>
	\$197.51
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## L E T T E R S .

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*Comd's Off. U. S. N. Yard, Phila. Nov. 18, 1856.*

JOHN E. ADDICKS, Esq., Chm. F. I. Com. on Exhib.

SIR—I have this morning received your very polite invitation for myself and those under my command, to visit the Franklin Institute Exhibition.

Be pleased, Sir, for this act of courtesy, to present my thanks to the Committee, and say to them that their invitation shall be communicated to all whom it embraces.

I am, &c.,

CHAS. STEWART, *Com'd.*

---

*382 Spruce Street, Nov. 20, 1856.*

JOHN E. ADDICKS, Esq., Chm. F. I. Com. on Exhib.

SIR—I have received the invitation of the Committee of the Franklin Institute to make the Address at the close of their Annual Exhibition. It gives me great pleasure to comply with it. I shall be most happy to be the representative on such an occasion of that excellent institution, and also to embrace the opportunity as a Philadelphian, of expressing my high appreciation of the advancing progress, taste, and skill of those who have so successfully directed their talents to the cultivation and improvement of useful art.

With great respect,

HENRY D. GILPIN.

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*Deaf and Dumb Institute, Nov. 25, 1856.*

JOHN E. ADDICKS, Esq., Chm. F. I. Com. on Exhib.

SIR—Permit me in behalf of the Directors of this Institution, to return many thanks to the Committee on Exhibitions, of which you are Chairman, for the privilege accorded to the mutes under their charge, of visiting the present beautiful Exhibition. The visit was exceedingly gratifying, and, no doubt, will be productive of good.

Please accept my own acknowledgments for your attention in this matter, and believe me,

Very respectfully, &c.,

A. B. HUTTON,  
*Prin. Pa. Inst. Deaf and Dumb.*



*Philadelphia, Nov. 28. 1856.*

JOHN E. ADDICKS, Esq., Chm. F. I. Com. on Exhib.

SIR—The undersigned, to whom your Committee so confidently and liberally entrusted the circulation of the one thousand tickets\* to the "Franklin Institute Exhibition," have faithfully and carefully apportioned and transmitted them to the several sections of the City, and from some sections have received very complimentary letters touching your liberality. Allow us, on behalf of all those to whom those tickets came, to thank you for your liberality, which we take occasion here to say, is but of the same piece of your former acts towards the school department.

It is always pleasant to the friends of education in all its branches, to see kindred institutions blending together their energies towards the promotion of the common cause. For your act, you have the thanks of a thousand adults, and will deserve the thanks of thousands of those who reap the advantages of the public schools.

Very respectfully, &c.,

SAMUEL CLARKE,  
BENJAMIN GASKILL,  
JOSEPH COOPER.

\* For the Teachers of the Public Schools of Philadelphia.

*Girard College, Philada. Dec. 3, 1856.*

JOHN E. ADDICKS, Esq., Chm. F. I. Com. on Exhib.

SIR—The following resolutions were offered and unanimously adopted by the Teachers of Girard College, at a stated meeting held on Monday, December 1, 1856:

*Resolved*, That an expression of gratitude from the Officers of this Institution is due the Committee on Arrangements of the Franklin Institute, for their polite invitation to visit their Annual Exhibition of American Manufactures.

*Resolved*, That they are not unmindful of this and former kindnesses, and that the invitations of the Institute are always received with pleasure and accepted with alacrity, as every such opportunity increases in the pupils according to their different capacities, their powers of investigation and observation, awakens their ingenuity or stimulates them to exertions.

*Resolved*, That a copy of the above resolutions be forwarded to the Committee of the Franklin Institute Exhibition.

Very respectfully,

GEORGE J. BECKER,  
*Secretary.*

## I.—MODELS AND MACHINERY.

No. 1897. Dimpfel's Patent Fan Blowers, deposited by J. Kisterbock & Sons, Philadelphia. These blowers have received first premiums, and recall first premiums. Their high reputation for efficiency is so well established as to need no further recommendation.

*A Recall First Class Premium.*

No. 600. Magic Infallible Locks, by L. Yale, Jr., & Co., Philada. For a full description of this lock reference is made to the Journal of the Institute, July, 1856, containing a report of the Committee on Science and the Arts. The Committee on Exhibition, upon said report, award

*A First Class Premium.*

No. 1689. Steam and Fire Regulator, by A. Campbell, New York. An important invention, which, as its name implies, regulates the fire in steam boilers. So far as the Judges are aware, it has given satisfaction, performing all that is claimed; for its utility, *A First Class Premium.*

No. 1940. Rotary Knitting Machine, by W. P. Uhlinger, Philadelphia. Workmanship good, and very complete. *A First Class Premium.*

No. 2001. Power Loom, by Samuel Eccles & Son, Philadelphia. Blanchard's patent heddle motion its chief merit; equal to any in use for making twilled cotton goods, and displays considerable ingenuity.

*A First Class Premium.*

No. 2003. Cotton Picker, by R. Kitson, Lowell, Massachusetts. A good article, and worthy

*A First Class Premium.*

No. 2059. Patent Power Looms, by William Benjamin & Co., New York. Very excellent for plain cotton goods, and of considerable originality.

*A First Class Premium.*

No. 60. Machinists' Tools, by Darling & Schwartz, Bangor, Maine, deposited by Field & Hardie, Philadelphia. The squares deserving of merit; for accuracy of workmanship,

*A First Class Premium.*

No. 1772. Model Blowing and Pumping Machine, by J. P. Ross, Lewisburgh, Pennsylvania. Beautifully made, without crank, shaft, or fly wheel; the valve motion is obtained by the movement of the main cross-head, a part of which slides in a peculiar shaped groove cut in an arm of the valve gear, so made as to gradually and properly admit and exhaust the steam by a slide valve. The Judges believe the arrangement new and valuable.

*A First Class Premium.*

No. 1831. Improved Circular Saw, by N. Barlow, New York. The wood cut by this saw is as smooth as if it were planed, owing to the peculiar gouge shape of the teeth, which do not tear away the particles of wood, as in the ordinary saws, but cuts them. The uniformity of shape and size is insured in the teeth by sharpening them with a rotary milling tool, which is clamped to the saw while the teeth are being sharpened. For the improvement,

*A First Class Premium.*

No. 1857. Scroll Saw, by L. Wright, Newark, New Jersey. Possessing great facility for sawing in curved lines. The saw can be quickly changed to suit different kinds of work or rate given for coarse sawing. The mode of attaching the spring to the saw by straps passing over the double pulleys, thus reducing its motion, has a great advantage in permitting the number of strokes to be increased without causing greater tremor. For perfection of general arrangement,

*A First Class Premium.*

No. 1696. Rope Making Machine, by Mower & Woodworth, Boston. Excellently arranged.

*A First Class Premium.*

No. 1827. Adjustable Pulleys and Governor, by J. Tremper, Philadelphia. For the Governor,

*A First Class Premium.*

No. 1859. Rope Machine, by T. G. Boone, Brooklyn, New York. Worthy

*A First Class Premium.*

No. 1728. Hoop Splitting Machine, } American Hoop Machine Com-  
No. 1729. Do. Shaving do. } pany, Fitchburg, Massachu-  
setts, deposited by J. Phillips. Efficient, ingenious, and does its work well. For the adaptation and usefulness,

*A First Class Premium.*

No. 1709. Fan Blowers, by M. Alden, Philadelphia. The Judges speak in high commendation of these blowers, as being equal in all respects to any with which they are acquainted, and worthy of

*A First Class Premium.*

No. 1932. A 36-inch Planing Machine, by Bement, Dougherty & Thomas, Philadelphia. A good article.

*A Second Class Premium.*

No. 2104. 25-inch Planing Machine and Counter Hangings, by W. Sellers & Co. Very complete, and excellent workmanship.

*A Second Class Premium.*

No. 394. Machinists' Tools, by J. B. Brown & Sharp, Providence, Rhode Island, deposited by W. W. Maull & Co., Philadelphia. For the standard measures,

*A Second Class Premium.*

No. 1724. Grain Washing and Drying Machine, by H. N. Black, Philadelphia. Possessing some novelty of construction, and great utility, combining two well known principles of washing and drying by centrifugal velocity; appears to do its work well, but cannot answer as to quantity.

*A Second Class Premium.*

No. 1908. Patent Sifting Machine, by S. Harris, Springfield, Mass. The feature in this machine consists in the manner of causing the reciprocating motion, by a grooved cam wheel, which suddenly reverses the direction of the motion. It is a good and useful article.

*A Second Class Premium.*

No. 1682. Patent Turning Lathe, by J. H. Gould, Philadelphia. For irregular shapes in wood, by means of patterns, having some features of originality.

*A Second Class Premium.*

No. 1821. Chasing Lathe, by R. Dolby, Philadelphia. Simple, ingenious, convenient, great usefulness, and superior workmanship.

*A Second Class Premium.*

No. 1991. Wrenches, by — Baxter, Newark, New Jersey, deposited by A. Campbell, Philadelphia. Adjustable by a screw; more convenient and stronger than the old monkey wrench, and more easily shifted than the key wrench. An excellent article. For the improvement,  
*A Second Class Premium.*

No. 1877. Blooms' Patent Mathematical Lock, by J. Blooms, Philadelphia. Of great mathematical ingenuity, requiring more time for examination than the Judges are at this time enabled to give. The Committee therefore recommend to the depositor its reference to the Committee on Science and the Arts.

No. 535. Patent Steam Valve, by Robert Cornelius, Philadelphia. A meritorious invention to regulate the temperature of apartments warmed by steam. The Judges consider the valve as original, and that it will accomplish what it claims. It having been previously referred to the Committee on Science and the Arts of the Institute, no further remark at this time is necessary.

No. 1121. Detachable Shaft Coupling, by Peter Teal, Philadelphia. A neat, convenient coupling, without bolt heads or other projections to catch the belt; will require further practical test; it is now before the Committee on Science and the Arts.

No. 29. Model Thrust Bearing for Propellers, by George T. Parry, Philadelphia. The Judges believe it to be one of the best kind for receiving and transmitting the thrust of propeller shafts. A machine of the same kind, by the same depositor, designed to sustain the weight of turn-tables, called Parry's Anti-Friction Box, received a premium at a former Exhibition.

No. 409. Two Sewing Machines, by Hunt & Webster, Boston, Massachusetts, deposited by J. Willcox, Philadelphia. Works with a simple subsidiary thread; the machine is well made, and sold at a moderate price. One of the specimens is double speeded, for rapid work.

No. 555. Model Tackle Scale, by A. B. Davis & Co., Philadelphia. A convenient form, which weighs an article during the operation of hoisting it.

No. 601. Machine-Carved Block Letters, by W. C. Murphy, Philadelphia. Much in use, and present a neat appearance.

No. 1656. Steam Pump Fire Engine, by Taylor, Campbell & Co.; Brooklyn, New York. Justly proportioned, and apparently efficient; compactly arranged, and of excellent workmanship.

No. 1675. Ryan's Self-Connecting and Detaching Car Coupling, by Ryan & Griffin, Wilmington, Delaware. The model works well, but no decided opinion upon its merits can be given by our Judges. Its qualities must be tested by actual use on railroads.

No. 1687. Model Apparatus for Steam Boilers, by J. Frick, Philadelphia. Well made and ingeniously arranged, combining the usual blow-



off and safety feed valve, with alarm bell to notify cessation of the feed water. Is favorably spoken of by the Committee on Science and the Arts.

No. 1691. Portable Four Horse Power Farm Engine, by A. L. Archambault, Philadelphia. Equal to former Exhibition, at which they received a First Premium.

No. 1862. Hair Felting, by H. W. Miller, Philadelphia. A good article.

No. 1935. Screwing Machine, by Bement, Dougherty & Thomas, Philadelphia. Not new, but an excellent machine for the purpose; of good workmanship.

No. 1982. Bank Locks, by J. H. Butterworth, Dover, New Jersey. Permutation and combination; ingenious and well made.

No. 2002. Card Clothing, by R. Kitson, Lowell, Massachusetts. Answers a good purpose.

No. 2004. Model Steam Engine, by H. Wernle, Philadelphia. Very neatly made.

No. 2023. Horizontal Steam Engine, (25 H. P.,) by Morgan & Orr, Philadelphia. An excellent piece of workmanship, and was used for driving the machinery during the Exhibition.

No. 2026. Small Foot Lathe, by W. S. Blumner, Philadelphia. Excellent workmanship.

No. 2045. Church Bells, by Bernhard & Co., Philadelphia. Good tone. The arrangement for balancing is so perfect that they ring with ease.

No. 515. Shuttles, by E. Jackson, Philadelphia. Good specimens.

No. 1814. Fire Proof Safes, by Farrell & Herring, Philadelphia. Workmanship equal to any we have seen, and appears to be calculated to stand the most severe tests.

No. 2051. } Salamander Fire Proof Safes, by Evans & Watson, Phi-  
No. 2052. } ladelphia. Two safes in this deposit have been subject-  
No. 2053. } ed to a severe test at the late large fire which destroyed  
No. 2054. } the "Artisan Buildings," in Ranstead Place, and with-  
stood the action of intense heat for several hours. When opened, their contents were found uninjured, which is the best recommendation of their fire proof qualities. The workmanship is believed to be equal to any manufactured in the United States or Europe, for the purpose for which they are intended.

No. 1820. Double Lift and Force Pump, by W. H. Harrison, Philadelphia. Compact, easy of access, efficient, and of apparent durability.

No. 1843. Fire Escape Ladder, by G. W. Keller, Philadelphia. No improvement noticed over one that received a premium at a former Exhibition.

No. 1863. Self-Loading Cart, by Z. Butz, Lincolnton, North Carolina, deposited by H. Howson, Philadelphia. Ingeniously arranged, and deserving of trial.



No. 1880. Gum and Leather Belting, by Hoyt & Bros., New York. Very largely in use. The deposit is of excellent quality.

No. 1921. Lap Welded Flues, }  
 No. 1922. Gas Fitters' Tools, } Morris, Tasker & Co., Philadelphia.  
 No. 1923. Samples Tubing, } All of the usual good style and  
 by this firm. } quality of articles manufactured

No. 1677. Hand or Power Drilling Machine, by R. Wilson, Milton, Pennsylvania. Of considerable ingenuity and originality, but very complex.

No. 1695. Model Patent Brick Machine, by I. Harman, Schuylkill co., Pennsylvania. Displays considerable ingenuity, but must be tested on a large scale before an opinion can be given.

No. 1785. Model Brick Machine, by C. Carnell, Philadelphia. For making bricks of untempered clay, less complicated than most other kinds, and is recommended by brick makers who have it in use. The construction for throwing it out of gear in case of any obstructions getting into the mould, is highly ingenious.

No. 1788. Tenting Machine, H. B. Fiske, Philadelphia. An improved mode for drying and tenting cloth; an excellent machine for the purpose.

No. 1790. Model Patent Soap Cutting Machine, by Van Hagen & Co., Cincinnati, Ohio. Of considerable ingenuity.

No. 1826. Reeds, by Beck & Doebely, Philadelphia. A good article.

No. 1833. Hawkins' Patent Universal Chuck, by E. Hawkins, Windsor Lock, Massachusetts, deposited by A. Gavitt. Not new in principle, but good workmanship.

No. 1946. Steam Engines, Gas Valves and Testing Machines, by Merrick & Sons, Philadelphia. Good workmanship and appearance. The testing machine is similar in design to that used by the United States Government. It is strong and well proportioned.

No. 1977. Patent Wire Rope, by J. A. Roebling, Trenton, New Jersey. The specimens are evenly laid and of good appearance. Those of small diameter are very flexible.

No. 1994. Water Gauges, by F. A. Hoyt & Co., Boston, Massachusetts. A copper float filled with compressed air works in a tube attached by its upper and lower end to the boiler, a connecting wire causes an index to rise and fall with the float, and point to the water level. The arrangement is not novel, but the appearance of the instrument is creditable, as by excellence of workmanship they have endeavored to overcome the defects that are inseparable from automatic water indicators.

No. 1995. Brass Valves, Cocks, &c., by Morris, Tasker & Co., Philadelphia. A handsome collection, of various sizes and shapes. Their extensive use is an evidence of their merit.

Nos. 1698 and 1699. Hand Brick Presses, by Samuel P. Miller, Philadelphia. Similar in design and execution to those previously exhibit-

ed. They are known to possess excellent qualities, are strong and well made.

No. 1706. Scales, by Fairbank & Ewing, Philadelphia. They still maintain their high character for accuracy and finish, for which first premiums have been awarded to them at previous Exhibitions.

No. 1717. Perkinpine's Axle Box, by D. R. Perkinpine, Philadelphia. More simple in design than usual, easy of access to clean or renew the working parts, and are recommended to the notice of railroad companies and car builders.

No. 1722. Ward's Self-Acting Coupling, by J. C. Ward, Philadelphia. The mechanical contrivance of this deposit requires a more extended examination.

No. 1723. Model City Railway, by D. D. Badger & Co., New York. Highly recommended.

No. 1738. Stubblefield's Steam Gauges, by Albertson & Douglass, Machine Co., New London, Conn.	} All deposited by
No. 1739. Schaffer's Steam Gauge, Harrison, New York.	
No. 1740. Schmidt & Co.'s Steam Gauges, New York.	

W. B. Le Van, Philadelphia. These gauges are neat in appearance, but the Judges cannot express an opinion upon their merits, as no means for their accurate test was convenient.

No. 1771. Wagner's Adjustable Reciprocating Saws, by T. Mason, Philadelphia. Designed to cut boards of any thickness, without moving the log after it has been once set.

No. 2055. Bank Vault Door, with Lock attached, by Evans & Watson, Philadelphia. A very creditable piece of workmanship.

No. 2103. Hoisting Machine and Hanger for Shafting, by W. Sellers & Co. A useful article, of good workmanship.

#### *Ordnance.*

No. 1147. Wrought Iron Gun, 7-pounder, made and deposited by John Griffin. This gun is made by passing the pile, which is of peculiar construction, through rollers similar to those used in the manufacture of ordinary bar iron, thereby forming the entire gun when the whole mass is at a welding heat, in place of partial and repeated heats, as heretofore necessary when made under the hammer.

A gun made upon this plan has been tried at Fort Monroe, Virginia, by an officer of the Ordnance Department, and his report shows its great capacity of endurance under fire, and that some portions of the broken gun developed generally a *fibrous* structure in the iron, although some large crystals were noted in one part near the breech. These crystals must have been formed during the process of manufacture. The inventor states that he believes the present gun to be entirely free from them. The Judges are of opinion, from the appearance of the metal of the specimens now exhibited, as well as from the official report of the trial of the first gun made by Mr. Griffin, that a great degree of

excellence has been arrived at; and should the opinion of the inventor prove correct, that any size may be formed in the same manner without injury to the character of the material, an object will have been attained which has long occupied the attention of artillerists, and cannon may be made of sizes not heretofore practicable.

For the enterprise and skill displayed by the inventor, and the promise which the invention bears of future excellence when applied to large sizes of cannon, we award

*A First Class Premium.*

## II.—WROUGHT IRON.

One piece of ROLLED IRON, by Charles E. Smith, 4 inches width by  $\frac{1}{8}$ th of an inch thick, and 82 feet long. This is a very important article, designed for bands to drive machinery at mines. Its unusual length deserved especial notice, and worthy of a

*A First Class Premium.*

One piece of ROLLED IRON, by Reeves, Buck, & Co., of extraordinary size,  $11\frac{1}{2}$  by  $2\frac{1}{4}$  inches, and 14 feet 2 inches long, weighing about 1244 lbs. Had it been deposited in time it would have been entitled to a first class premium. The Committee believe it is the largest piece ever rolled in this country. Also, one  $9\frac{1}{4}$  by  $2\frac{1}{8}$ , 12 feet 4 inches long, weighs 896 lbs.

## III.—HARDWARE.

No. 16. Hay and Manure Forks, by Sheble & Lawson, Philadelphia. The angular tanged spading fork is entirely new, of great merit, light and easily handled, possessing the good qualities of both spade and fork. The whole deposit is very good and fully equal to their previous one, for which they received a first premium.

*A Recall First Class Premium.*

No. 348. Cast Steel Scissors and Sheers, Clarenbach & Herder, Philadelphia. A good display of well finished articles, fully equal to previous Exhibition, for which they received a first premium.

*A Recall First Class Premium.*

No. 1. Model Tools, by George Heath and J. S. Parsons, Springfield, Delaware county, Pennsylvania, at the factory of W. Beatty & Son.—Consisting of two hundred and six pieces representing the different patterns and sizes of tools made at said factory, upon a scale of an inch and half to the foot; they are made of the best refined cast steel, well proportioned and finished.

*A First Class Premium.*

No. 43. Iron and Brass Flat and Round Head Gimlet Points, Wood and Machinery Screws, made by the New England Screw Company, and deposited by Justice and Steinmetz, Philadelphia. The thread well cut, and higher up than usual, particularly on the smaller sizes. For their general good quality,

*A First Class Premium.*

No. 65. Saws, by Henry Disston, Keystone Works, Philadelphia.—Ground perfectly true by Southworth's pattern process, tempered by Sylvester's machine. For handsome finish, superior grinding and excellent quality,

*A First Class Premium.*

No. 423. Braces and Bitts, Saw Pads, Spoke Shaves, and other light tools, by Booth & Mills, Philadelphia. Excellent quality, good workmanship, and reasonable in price.  
*A First Class Premium.*

No. 505. Axes and other heavy Edge Tools, by C. Hammond, Philadelphia, of good material, well finished, and believed to be fully equal to any made. For their general good quality,  
*A First Class Premium.*

No. 618. Razors, by William Gilchrist, Philadelphia. Very superior.  
*A First Class Premium.*

No. 99. Brass Cocks, Heavy Hinges, and other Brass Work, for Ship and Steamboat use, by Morrison & Ray, Philadelphia. For quality and workmanship,  
*A Second Class Premium.*

No. 223. Cabinet and House Trimming Goods, by P. & F. Corbyn, New Britain, Connecticut, deposited by Miller & Wood, Philadelphia. A great variety of brass, bronze, electrotype and japanned articles.  
*A Second Class Premium.*

No. 228. Deposited by Bringham & Verree, of the Quaker City Works, Saws of nearly every description required, extremely well gotten up, style and finish very creditable, squares, bevels and case knives, very good. A large assortment of bright and black shovels and spades, the best of the kind in the Exhibition. For the general good quality of the shovels and spades, we award  
*A Second Class Premium.*

No. 378. Two pair Skates, by Bushnell & Tull, Philadelphia. Made for the Philadelphia Skating Club, and probably the handsomest articles of the kind ever manufactured in this city.  
*A Second Class Premium.*

No. 546. Brass, Plated and Enamelled Stair Rods, round, flat and twisted patterns, by Eddy & Hinchman, New York, deposited by Lyman & Bunting. By far the handsomest goods in the Exhibition of their kind.  
*A Second Class Premium.*

No. 185S. Harris's Improved Graduating Plane Iron, by H. Harris, Newark, New Jersey. The improvement consists in the regulating the thickness of the shaving, by a screw at the upper end of the iron, without loss of time. A very great improvement on the old form of plane iron, and at the reduction in price will probably come into general use.  
*A Second Class Premium.*

No. 19. Hoes and Rakes, by Smith Harper, Fox Chase, Pennsylvania. Very good tools for Agricultural purposes.  
*A Third Class Premium.*

No. 108. Skates in great variety, by Newark Skate Company, New Jersey, deposited by W. W. Knight, Philadelphia. All well finished.  
*A Third Class Premium.*

No. 115. Circular Saw Mandrils, by S. Vansciver, Philadelphia. Of superior quality.  
*A Third Class Premium.*

No. 418. Patent Curry Combs, by William Beach, Philadelphia. For their good qualities,  
*A Third Class Premium.*



No. 742. Plated Hub Bands, Buckles, &c., by the Hart Manufacturing Company, Kensington, Connecticut. A very handsome variety of bands, elegantly finished and plated. *A Third Class Premium.*

No. 28. Carriage Bolts, by Thomas S. Kelly, Philadelphia. Well made.

No. 36. Brass and Plated Stair Rods, by Wiler & Moss, Philadelphia. Well finished in every respect.

No. 43. Cast Steel Hoes, by N. B. Stevens, Norfolk, Connecticut ; Hay and Straw Knives and Brier Scythes, by C. Roby & Co. ; Cast Steel Butcher Knives, of the Union Works ; Brass Screw Rings, Castors, &c., by Landers & Smith ; Rifles, Horse Shoe Nails, &c. All deposited by Justice & Steinmetz, and have the appearance of good workmanship and quality.

No. 62. Cast Iron Branding Irons, letters and figures, by John Franklin, Philadelphia. Clear, distinct and well made, price moderate.

No. 63. Steel Blade Squares, part with spirit level in the stock and gauges, made and deposited by Thomas L. Moss, Philadelphia. All well finished.

No. 64. Butcher Knives, Trowels, &c., by Charles Disston. Well finished.

No. 76. Oyster Knives, by S. P. Miller, Philadelphia. Well finished.

No. 101. Self-Closing Gate Hinges and Fastenings, Door Butts and Carriage Gates, by Woolman & Coffin, Philadelphia. Appear well adapted and reasonable in price.

No. 554. Brass Shutter Screws, by Thomas Dodameade, Camden, New Jersey. Well finished and excellent quality.

No. 105. Shovels and Spades, by Jonathan Rowland & Son, Holmesburg, Pennsylvania. Fully sustain their good reputation.

No. 224. Fine Screw Plates, &c., by B. Martens, Philadelphia. Very meritorious and fully equal to former Exhibition.

No. 283. Cast Steel Letter and Frame Punches, by Jacobus & Schell, Philadelphia. Appear to be of the very best quality.

No. 321. Carpenters' Planes, by B. Sheneman & Bro., Philadelphia ; sustain their good character.

No. 328. Towar's Patent Spring Heel Horse Shoe, with movable corks and toes, by Newbold, Safford & Co., Philadelphia. By certificates exhibited from Blacksmiths and Veterinary Surgeons, they must be a great improvement.

No. 329. Towar's Patent Creepers, by Safford & Williams, Philadelphia. Well finished, a light and easily adjusted article, for use on slippery pavements.

No. 371. Self-Adjusting Fixtures, for Rolling Window Shades, by G. L. Miller, Philadelphia. A neat article for window curtains.

No. 420. Improved Sheet Iron Bake Pans, by William Beach, Philadelphia. Oblong, with rounded corners and handles, worthy of notice.

No. 421. Meat Maul, by the same depositor. A good article at a moderate price.



No. 477. Ivory Table Cutlery, by Lamson, Goodnow & Co., Shelborne Falls, Mass.; deposited by E. W. Carryl. Well finished goods.

No. 501. Planes, by John Colton. Very good and fully equal to the best exhibited by this maker.

No. 503. Made by Walter Cresson, Philadelphia. Numerous samples of Saws for almost every use. A handsome display of very creditable goods, evincing great improvements in many respects. Also, patterns of steel blade squares, bevels, mortise gauges. All well got up and handsomely finished.

No. 506. Drawing Knives, Socket Chisels, Mowing Machine, Teeth, &c., by Whitman & Miles, Massachusetts. Well made and handsomely finished in every respect.

No. 507. Cook's Patent Auger Bitts, with Circular Cutters, by Lamson, Goodnow & Co., deposited by Caldwell & Ghriskey, Philadelphia. Decidedly the best pattern in use.

No. 509. Saw Mandrills, by J. Whitney, Winchester, Massachusetts, deposited by Walter Cresson. Good article.

No. 542. Files, by the Stamford File Company, deposited by Lyman & Bunting. Well cut, apparently of good material and excellent quality.

No. 544. Patent Cast Steel Shovels, by the Antrim Shovel Company—having welded strap which is said to be as cheap as the riveted. The sample on deposit appears to be too light in the blade except for moulders' use.

No. 556. Spirit Plumbs and Levels, by William Goldsmith, Philadelphia. A handsome assortment fully equal to any made.

No. 567. Axe, Pick and Hatchet Handles, by Philip G. Reading, Frenchtown, New York; deposited by J. E. Armorer. Very fair.

No. 579. All over Brass Plated Spirit Level and Plumb, with adjustable screw, by L. Brooks, Great Falls, New Hampshire. A splendid article.

No. 668. Patent Horse Shoes, by N. B. Carpenter, New York, deposited by Lyman & Bunting. They require no nailing in the hoof, and in some cases may be used to great advantage, but we cannot decide upon their merits.

No. 672. Box Openers, by G. C. Taft, Worcester, Massachusetts, deposited by Lyman & Bunting. Apparently very convenient.

No. 1114. Pole Pruning Shears, by W. Stady, deposited by H. A. Dreer. Well made and serviceable.

No. 1119. Breast Drill Stock, by C. B. Crossman, Philadelphia. The best of that description brought to our notice.

No. 1124. Wrought Nuts, by Brayton Wrought Iron Manufacturing Company, New York, deposited by Lyman & Bunting. Very fair quality.

No. 1125. Silver Glass Curtain Pins, by Silver Glass Company, New York, deposited by Lyman & Bunting. Very handsome goods.

No. 1753. Iron and Brass Snuffers, by Stowe Manufacturing Company,

Plantsville, Connecticut, deposited by N. Trotter & Co., Philadelphia. For a low priced article, well made.

No. 1979. Diamond Razor Strops, by C. Y. Haines & Co., Philadelphia. A large assortment, and probably the best, at the price, in the market.

No. 1987. Planes, by E. W. Carpenter, Lancaster, Pennsylvania, deposited by D. D. & P. Yarnall, Philadelphia. Very good tools.

No. 1996. Cast Iron Bench Planes, by Silsby, Mynder & Co., Seneca Falls, New York. Very fair.

#### IV.—HOUSE-BUILDING MATERIALS.

No. 203. Glass Plate and Roofing Glass, by Philadelphia Glass Company, deposited by W. P. Walter, Philadelphia. This kind of glass on account of its extended application for building purposes has become of much importance. In the large display presented, the Company have well sustained their former reputation. The articles are of excellent quality; green glass fully equal for all practical purposes to the French imported and furnished at a third less cost. Having received a premium at a former Exhibition, we now award to the deposit a

*A Recall First Class Premium.*

No. 203. Vault and Ship Lights, by Philadelphia Glass Company, deposited by W. P. Walter. The improvement claimed is cutting the glass into iron or brass frames, grooves being made in the same for that purpose. The frames being heated, contracts with the glass in cooling. They appear an excellent article, strong and well made. *A Second Class Premium.*

No. 1126. Vault Lights, by G. R. Jackson & Co., New York, deposited by Lyman & Bunting, Philadelphia. Well made with flint glass lights of a prismatic form, and cemented into cast iron frames; an excellent article for diffusing light. *A Second Class Premium.*

No. 1791. Improved Window Sash, by C. P. Weaver, Philadelphia. A good improvement, an excellent arrangement of parts deserving especial notice, particularly in the City so given to window washing. For the improvement, *A Second Class Premium.*

No. 1860. Window Frame, by A. Spear, Passaic, New Jersey, is an arrangement of iron weather strips working in grooves around the sash, and also acts as a fastener; it is a good and useful improvement, and especially well adapted to protection from cold and rain when applied to French casement windows. *A Second Class Premium.*

No. 1992. Car Window Catch, by William H. Gee, N. Y., deposited by A. Campbell, Philadelphia. An excellent article for the purpose, very simple and not likely to get out of order. *A Second Class Premium.*

No. 1966. American Gum Elastic Coated Iron.

No. 1967. " " " " Pipes.

No. 1968. Paints for Coating Iron. The mixture is said to consist of Spanish brown and litharge, ground with well boiled linseed oil, and is applied while the iron is in a heated state. The paint has a good body and adheres to the metal with much tenacity, has great toughness, is

not easily cracked or removed by bending; it appears to form an excellent protection from oxidization. Time and exposure to atmospheric changes will alone test its durability as good roofing material. For which reason we recommend to Messrs. Butcher & Sons, of Philadelphia, to refer the deposit to the Committee on Science and the Arts.

No. 2074. Enamelled Slate Mantels, by Penrhyn Marble Company, Boston. An exceedingly beautiful imitation of costly marbles, enamelled on slate, chaste in design and well executed. The Judges being in doubt in regard to the enamelling, recommend their reference to the Committee on Science and the Arts for further investigation.

No. 20. Roofing Slate, by Lehigh Slate Co., deposited by D. D. Jones, Philadelphia. The samples exhibited appear to have all the required good properties for that purpose.

No. 204. Roofing Slate, by Peach Bottom Slate Mining Company, deposited by S. T. Bodine, President, Philadelphia. Of good quality so far as can be judged from the sample.

No. 330. Self-Supporting Scaffold, By A. C. Funston, Philadelphia. An efficient and economical arrangement for the use of painters, plasterers, &c., and worthy of special attention.

No. 365. West's Patent Galvanic Cement Roofing, by W. R. & McD. Cornell, Philadelphia. This material is extensively used for roofing, and appears so far to give satisfaction, but will require time to ascertain its quality under atmospheric action. It is useful and important as a roofing cement, and as far as tested does, we believe, stand the influence of weather.

No. 1117. Patent Sash Fastener, by E. McClain, Philadelphia. Worthy the attention of builders.

No. 1676. Model Roof, by H. M. Warner & Co., Philada. Another composition for roofing purposes, and also extensively used. It is comparatively a new article, having been used in this City but a few years. When well prepared and carefully put on, makes a good tight covering and withstands the weather very well.

No. 1692. Dove-Tailing and Mortising Machine, by I. G. Baker, & Co., Philada. A good and useful machine, applicable to many mechanical uses for boring, tenoning and mortising, worthy the attention of carpenters and cabinet makers.

No. 1719. Model Sample Slating, by Harford Manufacturing Comp., Maryland, deposited by J. L. Taylor, Philadelphia. An exceedingly good specimen of fancy and plain slating, meriting approbation. The slate appears of good quality.

No. 1770. Device for Preventing Damage by Water, by T. Estlack, Philadelphia. A method by which surplus water can be carried from rooms to an outside flue. The attention of builders is called to the arrangement.

No. 1931. Sample Hand Rail, by H. W. Evans, Philadelphia. Ordinary good work.

No. 2022. Wood Mouldings, by M. Grier, Philadelphia. Of various styles and widths, smooth and excellent workmanship, the best assortment ever exhibited.

## V.—MARBLE AND STATUARY.

No. 2098. Sculpture in Basso Relievo, (Marble,) by John Struthers & Son, Philadelphia. At a former Exhibition the Committee received collections from the visitors for the Washington National Monument, and decided with the proceeds to procure a suitable stone, the execution of which was placed in the hands of J. Struthers & Son. The figure represented, and its attendant devices, are emblematic of mechanical forces; the whole is finely designed and executed, and in the language of the Judges reflects great credit upon the Committee as well as Messrs. Struthers & Son. To the latter we award *A First Class Premium.*

No. 1828. Tennessee Marble Mantels and Table Tops, by E. K. Hess, Philadelphia. Fine specimen of American marble and good workmanship. *A Third Class Premium.*

No. 58. Marble Statuary, by J. & H. Johnson, Philadelphia. Very creditable. The female head very remarkable as a first attempt.

## VI.—STOVES AND HEATERS.

No. 1892. Hot-Air Furnace, by Marklec & Thatcher, New York, deposited by Peters & Johnson, Philadelphia. The features most worthy of notice, are the series of pipes through the fire chamber by which a vast volume of air is circulated from the lower to the upper part of the chamber. The manner in which it cleanses itself fully preventing clogging, and the admirable arrangement by which the fire chamber is brought much nearer to the front, dispensing with the usual long feeding necks, and which prevents the cracking of the brick work and facilitates necessary repairs; for the above reason, this furnace possesses advantages over other furnaces on exhibition. *A First Class Premium.*

No. 1889. Welcome Cooking and Heating Range, by J. P. Hayes, Philadelphia. Containing two large ovens of the best construction and well ventilated, a complete hot-air chamber for warming upper rooms, with every facility for roasting and warming and heating bath water, is easily managed and cleansed. It seems to combine all desirable qualities in a cooking range. *A First Class Premium.*

No. 1664. Fire Board Stove, by Chadwick & Bro., Philadelphia. A new and useful article on the MacGregor principle for heating back buildings, ornamental in appearance and efficient. *A First Class Premium.*

No. 1669. Union Hot Air Range, by H. J. White, Philada. Similar in its character to the "Welcome," the lower oven cast iron and tubular which gives a large radiating surface. Its operation was perfectly satisfactory to the Judges. *A First Class Premium.*

No. 2105. Fire Brick and Tile, by B. Kreischer and Nephew, N. Y. Are the best ever exhibited, and this opinion is based upon actual use of them for several years. *A First Class Premium.*



No. 1920. Hot Water Furnace, by Morris, Tasker, & Co., Philada. The Judges remark that this is the best apparatus for heating by hot water that has come under their notice. The fire is under perfect control by certain self-governing valves, an uniformity of heat generated, great safety from fire ; the parts are well adapted to each other, in a perfect manner and of great durability. Wherever it is in use its operation has given great satisfaction. *A First Class Premium.*

No. 2008. Parlor Cook Stoves, } deposited by A. C. Barstow,  
 No. 2009. Franklin Wood Stove, } Providence,  
 No. 2010. Office Stove, } Rhode Island.

The superiority of these castings are fully admitted.

*A Second Class Premium.*

No. 2071. Richard's Portable Heater, by A. C. Barstow, Providence, Rhode Island, deposited by Arnold & Wilson, Philada. New in its combination and no doubt an excellent article. *A Second Class Premium.*

No. 1925. Water Self-Regulating Heater, deposited by A. W. Rand, made by L. W. Leeds, Philadelphia. Appears to be well adapted for its purpose, cast in sections; the parts are all easily fitted, and the joints being exposed, leakage is easily prevented. *A Second Class Premium.*

No. 1659. Bath Boiler, by Morris & Co., Philada. A very handsome specimen of workmanship. *A Second Class Premium.*

No. 2077. Lot of Sheet Iron Ware, by C. L. Porter, Philada. Well made of American sheet iron. Some of it is highly ornamental, and creditable to the maker. The coal and ash sifter is very useful, and deserving of general use. *A Second Class Premium.*

No. 1924. Boynton's Hot Air Self-Cleaning Furnace, deposited by A. W. Rand, Philada. A massive and powerful heater, compact and large radiating surface, which will no doubt give satisfaction, but requiring more extended investigation, is recommended to be referred to the Committee on Science and the Arts.

No. 1683. Gas Cooking Stoves, by A. Gleason, Philada. The Judges remark that they are favorably impressed with the merits of these gas stoves, so desirable for summer use, but decline awarding any premium until a further and more full investigation can take place, for which reason they recommend to the depositor their reference to the Committee on Science and the Arts.

No. 1665. American Range, by Barstow & Co., Providence, deposited by Chadwick & Bros., Philada. Very complete, with rotary top facilitating the movement of boilers over the fire, low in price and worthy of special notice.

No. 1661. MacGregor Heater, by the same depositor. The absence of the usual radiating surfaces is a principal feature in this heater, which renders it very simple in its construction, not likely to get out of order, and furnished at a low price, consuming a small amount of coal ; it appears to be a powerful heater.

No. 1662. Portable Heater, by the same depositor.



No. 1663. Dining Room Heater, by the same depositor. On the same construction as above and in good style.

No. 1658. Hot-Air Cooking Range, by Morris & Co., Philada. Well known as the Congress Range, performing all required in a highly satisfactory manner. The Judges express their confidence in its merits, and recommend it to favorable notice.

No. 1657. Fire Board Stove, by the same depositors. A very useful and ornamental article for heating back buildings.

No. 1702. Lot of Stoves, by North, Chase & North, Philada. Very creditable specimens by this well known firm; for beauty of design, fine casting, and neat finish, they compare favorably with any similar goods in the Exhibition.

No. 1983. Air-Tight Coal Stoves, by C. J. Tyndale, Phila. A good article and neat finish.

No. 1985. Portable Parlor Grates, by the same depositor. New style and attractive in appearance; the air-tight wood stove in this deposit is long and favorably known,

No. 1953. Air-Tight Gas Consuming Coal Stove, by J. S. Clark, Philadelphia. Desirable style, and no doubt efficient, a double lined portable heater in this deposit, is well made and afforded at a low price.

No. 1667. Siddall's Self-Cleaning Furnace, deposited by H. J. White, Philadelphia. A superior article.

No. 1678. Fire Brick Tile, by Mueller & Neukumet, Phila. Of good appearance and deserving attention.

No. 2014. Morning Star Cook Stoves, } by A. J. Gallagher,

No. 2015. Sunrise Air-Tight " } Philadelphia.

A fine collection of these long and favorably known stoves; they fully sustain their reputation.

No. 2007. MacGregor Heating Stoves, by Neman & Warnock, Phila. Beautiful in design and powerful in operation, fully sustain their reputation.

No. 1651. Hot Air Furnaces, by S. McFerran, Philadelphia. From their construction deemed a good article.

No. 1893. Parlor Stoves, by Marklee & Thatcher, N. Y., deposited by Peters & Johnson, Philadelphia. Fine specimens of workmanship and no doubt efficient in operation.

No. 2070. Chilson's Hot Air Furnace, deposited by Arnold & Wilson, Philadelphia. This heater is well and favorably known, having been in successful operation for several years, and well tested under very severe circumstances. It still preserves its reputation as a first class heater.

No. 2072. Chilson's Trio Stove, by Chilson, Gould & Co., Boston, deposited by Arnold & Wilson, Philadelphia. A good Stove on the graduation principle.

No. 2075. Parlor Grates, by Bent, Griffith & Co., South Carver, Mass., deposited by Arnold & Wilson, Philadelphia. A fine display and worthy of special notice.

## VII.—CABINET WARE AND UPHOLSTERY.

No. 1736. Cottage Furniture, made and deposited by Courtney & Willetts, Philadelphia. Excellent workmanship, highly polished, tastefully painted, and sold at a very moderate price.

*A Recall First Class Premium.*

No. 1850. Furniture, made and deposited by G. J. Henkels, Philada. Very excellent workmanship, the carving superior to any heretofore exhibited.

*A Recall First Class Premium.*

No. 1907. Venetian Blinds and Cornices, made and deposited by R. W. Kensil, Philadelphia. Fully sustains his previous reputation.

*A Recall First Class Premium.*

No. 1937. Chairs and Settees made and deposited by Wisler & Brother, Philadelphia. Excellent workmanship.

*A First Class Premium.*

No. 1956. Furniture, made and deposited by Register & Bell. Highly ornamented and painted.

*A First Class Premium.*

No. 2061. Two Side Boards, made and deposited by Thomas & Nass, Philadelphia. One of oak and the other of walnut, richly carved and beautiful design.

*A First Class Premium.*

No. 2079. Walnut Secretary, made and deposited by J. T. Hammitt, Philadelphia. Superior workmanship and finish.

*A First Class Premium.*

No. 1899. Venetian Blinds, made and deposited by A. Britton & Co., Philadelphia. The painting very creditable, workmanship superior.

*A First Class Premium.*

No. 2050. Glue and Curled Hair, made and deposited by H. Gerker, Son & Co., Philadelphia. Excellent quality.

*A First Class Premium.*

No. 2080. Patent Reclining Railroad Car Seats, by J. T. Hammitt, Philadelphia. These seats have iron frames and substantially made. They will take either an upright or inclined position at the pleasure of the passenger, and in either case are very comfortable; a person when sitting in them has all parts of his frame well supported, of great advantage to the traveler in night cars. For the great extent to which Mr. Hammitt has overcome the various difficulties in producing this seat, and its perfect adaptation to its use.

*A First Class Premium.*

No. 1837. Billiard Table, by Stout and Birch, Philadelphia. Mahogany frame, marble bed, improved gum cushions, with open pockets of beautiful finish and perfectly true. The Judges speak of it in a high manner as a very superior billiard table.

*A First Class Premium.*

2065. Combination Work Table and Bedstead, made and deposited by C. Baum, Philadelphia. A very convenient and useful article.

*A Second Class Premium.*

No. 2082. Dressing Bureau, made and deposited by Sillyman & Karcher, Philadelphia. A well made article.

*A Second Class Premium.*

No. 22. Habillimentary Toilet Stand, made and deposited by David Freed, Philadelphia. Containing many novel features combined with much merit. *A Third Class Premium.*

No. 285. Furniture Polish, made and deposited by Joel Fales, Phila. After careful examination as an article, it was highly recommended to housekeepers. *A Third Class Premium.*

No. 1824. Marble Top Chess Table, made and deposited by E. Young, Philadelphia. Of high polish and good workmanship.

*A Third Class Premium.*

No. 490. Reclining Car Seat, McLaren & Bushor, Philadelphia. A single seat with iron frame, so arranged as to take an inclined position when required; when upright, it is held so by a trigger; it also has the advantage of being reversible in position by turning over the back. Its mechanical arrangement is ingenious, and with some slight modifications would make a good reclining car seat. *A Third Class Premium.*

No. 12. Model Windsor Chairs, made and deposited by Daniel L. Stoud, Marietta, Penna. Very tasteful and good workmanship.

No. 534. Two Patent Book Cases, by A. L. Adams, Philadelphia. Deserving of notice, creditable workmanship, and somewhat improved upon the old plan.

No. 1652. Ornamental Iron Bedstead, made and deposited by S. Macfarren, Philadelphia. A very good article combining neatness, light weight, with sufficient strength, for which qualifications it is highly recommended.

No. 1767. Rocking Chair and Workstand, made and deposited by Charles Bosse, Philadelphia. Very good articles, tastefully made.

No. 1776. One Turned Centre Table and Frnit Dish, by J. Hoover, Philadelphia. Made of fancy woods, excellent in design and workmanship.

No. 1802. Spring Beds and Bolster, made and deposited by J. E. Creson, Philadelphia. Excellent make. We continue to entertain our good opinion of them and recommend them to the public.

No. 1830. Chairs, made by G. M. Carter, Philadelphia. Very handsome and good workmanship, reflecting much credit on the maker.

No. 1838. Fancy Etergere, made and deposited by John Henry, Philadelphia. Ornamented with moss and natural leaves, arranged with much taste.

No. 1851. Office Desk, made and deposited by D. K. & S. D. Large, Philadelphia. A good and very creditable ordinary counting house desk.

No. 1870. Patent Bedstead, made and deposited by Smith & Pugh, Philadelphia. This article appears to have a patent joint, which we consider a good improvement.

No. 1910. Iron Bedstead, deposited by J. Wilcox, Philadelphia. A very beautiful and well made article.

No. 1911. Two sets Wright's Patent Sectional Bed Springs, deposited by J. Wilcox. Are highly recommended as an excellent article.

No. 1943. Patent Bedstead Joint, by C. B. Eastman, Philadelphia. A dove-tailed joint and a very good article.

No. 2038. Patent Reclining Chair, made and deposited by C. Goehmann, Philadelphia. A very useful and good article.

No. 2025. Patent Arm Chair, by M. Eberhard, Philadelphia. A very desirable and useful article which is highly recommended.

No. 350. Piano Case, by J. F. Wilkins, Philadelphia. Made of black walnut, cut from Ashland, Kentucky. It resembles rosewood in so high a degree, that it is with some difficulty to be distinguished.

### VIII.—LAMPS AND GAS FIXTURES.

No. 620 to No. 664. A large assortment of Chandeliers, Pendants, Brackets, Girandoles, Lamps and Statues, by Cornelius & Baker, Phila., numbering more than one hundred different specimens. Most of these articles show a marked progress towards perfection both in artistic design as well as color and finish. In color and evenness of tint, the bronzes and verd antiques bear comparison with the best French. We note especially the six-light chandeliers designated "Armor Bronze," "Rococo," gilt and bronze, "Western Hunter," verd antique. For the general excellency of this deposit and the above chandeliers in particular, the Judges recommend to the Committee the award to Cornelius & Baker of the GOLD MEDAL. Mr. Robert Cornelius being a member of the Board of Managers of the Institute, the Committee on Exhibitions, under the rules, much to their regret, are compelled to withhold the award. The Committee on Exhibitions would here remark that it will be perceived by their report of the Exhibition of 1854, that a certificate of life membership in the Franklin Institute, was awarded to Robert Cornelius, Isaac F. Baker, and William C. Baker, the members of the then firm of Cornelius, Baker & Co., of merit for their deposit in that Exhibition.

No. 59. A Collection of Gas Apparatus, by Code, Hopper & Comp., Philadelphia. Comprising a pressure register of the most approved construction, a compound pressure indicator with 7 connexions, 1 experimental gas metre, and 2 customer metres, one of which is dissected, all of which give praiseworthy evidence of skill in their construction and finish.

*A First Class Premium.*

No. 1922. Gas Fitters' Tools, by Morris, Tasker & Co., Philadelphia. Well made and judiciously adapted to their different uses, being the best assortment that has been exhibited.

*A First Class Premium.*

No. 1653. Locomotive Head Signals, by D. D. Miller.

No. 1763. " " " "

No. 1654. " " Radley & Hunter, New York.

No. 1655. " " J. A. Williams, Utica, "

Deposited by Pratt & Freeman, Philadelphia. All are regarded as admirable specimens of high work and finish, and may be safely recommended to railway companies as a serviceable lamp for passenger engines. All of these lamps are nearly of equal excellence, and justice requires that to each maker should be awarded

*A First Class Premium.*



No. 1912. } Gas Stoves, by J. Wilcox, Philadelphia.  
 No. 1913. }

Considered to be well contrived for retaining and rendering useful a large portion of the heat produced with less than the usual unpleasant odor arising from the products of combustion. *A Second Class Premium.*

No. 1868. Improved Tongs for Gas Fitters and others, deposited by J. Bardsley. Deserves commendation for a convenient method of adaptation to pipes of different sizes. *A Second Class Premium.*

No. 150. Apparatus for the Generation of Rosin Gas, by N. Aubin, New York. Similar in its general arrangement to the usual miniature gas works, the chief difference being in the use of powdered rosin mixed with saw dust, in place of the ordinary feed of melted rosin. As the Judges had no opportunity to see the apparatus in action, its relative merits could not be observed. The depositor is recommended to refer it for further examination to the Committee on Science and the Arts.

No. 442. Dry Gas Metre, by — Downs, New York, deposited by J. Wilcox, Philadelphia. An excellent specimen of workmanship, and admirably adapted to exhibit the action of its interior parts.

No. 1923. Welded Tubing for Gas and Steam, by Morris, Tasker & Co., Philadelphia. Fully sustains the high reputation of the house in this important manufacture.

No. 1971. Similar Tubing, by Murphy & Allison, Philada. Deserves equal commendation for excellent quality.

No. 2095. Ball's Patent Wrought Iron and Cement Pipes, by Patent Water and Gas Pipe Company, Jersey City, deposited by J. Slater, Phila., give evidence of progress in this new branch of manufacture.

No. 685. Gas Regulators and Metres, by The Pennsylvania Gas Regulator Company. Appear to be well made.

#### IX.—TIN WARE.

No. 367. } Lot of Tin and Japanned Ware, made and deposited by  
 No. 689. } Isaac S. Williams, Philadelphia. The form of the articles are good, and the workmanship of very fine quality, both showing marks of great improvement. The Judges at the last Exhibition considered the display of this depositor as worthy of a first premium, and now say, that with even greater propriety they make the same award for the present deposit. *A First Class Premium.*

Mr. Williams being a member of the Board of Managers, cannot, under the rules, receive any award from the Committee on Exhibitions.

No. 370. Bright Japanned and Fancy Ware, by Hadden, Carll & Porter, Philadelphia. This assortment is well made, and reflects much credit upon the makers. The additional piece for holding the lid of the preserving can in its place, is considered an improvement.

*A Second Class Premium.*



No. 476. Japanned Ware, made by Musgrove & Young, New York, deposited by E. W. Carryl, Philadelphia. Beautifully made, and the japanning tastefully executed. *A Second Class Premium.*

No. 1753. Machine used in the Manufacture of Tin Ware, made by The Stowe Manufacturing Company, Plantsville, Connecticut, deposited by N. Trotter & Co., Philadelphia. These machines are well made, and no doubt will answer the purposes for which they are intended.

*A Second Class Premium.*

No. 324. Patent Measuring Funnels, made and deposited by A. C. Drand, Philadelphia. These may be used in many instances instead of the ordinary measure and funnel, though in some cases they might not be thought sufficiently accurate.

*A Third Class Premium.*

No. 410. Self-Sealing Preserving Cans, made by Wells & Provost, N. York, deposited by J. Wilcox, Philadelphia. Convenient and applicable to the purpose.

*A Third Class Premium.*

No. 474. Japanned Ware, by E. Carter & Co., New York, deposited by E. W. Carryl, Philadelphia. Well made and deserving

*A Third Class Premium.*

No. 475. Japanned Goods, by Taylor Hodges, New York, deposited by E. W. Carryl, Philadelphia. These specimens show good workmanship and will prove serviceable.

*A Third Class Premium.*

No. 1718. Three Milk Churns, made and deposited by Edward Evans, Philadelphia. Very durable, being made of heavy material, and the workmanship good.

*A Third Class Premium.*

No. 2089. Bird Cages, by A. Nindle, Philadelphia, maker and depositor. Tastefully made, and worthy

*A Third Class Premium.*

No. 134. Stone-Lined Water Cooler, by Oliver Evans, Philadelphia. A good article, which no doubt answers the purpose perfectly, with the additional advantage, that the water is more likely to keep pure in such vessels than in metallic reservoirs.

*A Third Class Premium.*

No. 159. Preserving Cans, by Arthur, Burnham & Co., Philadelphia. We think well of these cans because of the arrangement of the soldering joint at the top, being one piece of metal less than is ordinarily used, which renders it less liable to the admission of air.

*A Third Class Premium.*

No. 1784. Bird Cages, by S. Gunther, New York, deposited by J. Evans. Made of metal and japanned.

#### X.—HOUSEKEEPING ARTICLES.

No. 8. Pickles and Preserved Fruits, by Miles B. Espy, Philadelphia. An excellent display equal to anything that has ever come under the notice of the Judges. The fresh fruit especially, deserves much praise.

*A First Class Premium.*

No. 1917. Quilting Frame, by J. McDevitt, Philadelphia. A great improvement, requiring but little space when not in use.

*A Second Class Premium.*

No. 50. Glass Preserving Jars, by A. Stone & Co., Philadelphia. Far preferable to the tin cans now so much in use.

*A Third Class Premium.*

No. 1768. Cedar Ware, by L. M. Leyrer, Philadelphia. A handsome display of neat and well made ware.

*A Third Class Premium.*

No. 1829. Apple Cutting Machine, by Lark & Milner, Philadelphia, deposited by J. B. Smith, Philadelphia; very useful invention and worthy

*A Third Class Premium.*

No. 1882. Kindling Wood, by Conover & Reanny, Philada. Highly recommended to housekeepers as a great saving of labor.

*A Third Class Premium.*

No. 2039. Wisner's Patent Washing Machine, deposited by E. M. Hes-ton, Philadelphia. Much to be admired for its simplicity and cheapness.

*A Third Class Premium.*

No. 1782. Flour, by H. N. Black.

No. 1840. Flour from the Genesee and Central Mills, deposited by Wright & Co.

No. 1980. Pressed Flour and Buckwheat Meal, by H. W. & D. Hey, Philadelphia.

No. 1997. Flour and Buckwheat Meal,	} Allman & Zehnder,
No. 1998. Graham Flour,	
	} Philadelphia.

No. 2043. Flour, by W. B. Thomas, Philadelphia.

No. 2058. Flour, by W. Bishop, Springfield, Delaware County, Pa., deposited by Smedly & Rudolph.

No. 2078. Buckwheat Meal, by — Sterling, Wyoming Co., Pa., deposited by S. C. White & Bro.

No. 2088. Flour, by Diver & Johns, Baltimore, deposited by J. B. Fenley, Philadelphia. All equally good. For the buckwheat meal, the preference is given to the deposit of S. C. White & Bro., (No. 2078.)

## XI.—GLASS AND CHINA.

No. 158. China, plain and decorated, by C. Friese, Philadelphia. Some of this deposit are excellent specimens of china; plain and decorated Parian very good; all of which is the work of the depositor.

*A First Class Premium.*

No. 335. China, Granite and Earthen Ware, by Taylor, Speeler & Bloor, Trenton, deposited by J. L. Hoffman, Philadelphia. The china in this deposit is fully equal to the best heretofore exhibited; the granite is the best we have seen of American production, the body equal to standard manufactures abroad, and a little more care in finish would place them in a high rank; the whole deposit being manufactured by anthracite coal.

*A First Class Premium.*

The Rockingham and Yellow Ware, maintains the high reputation these manufacturers have long enjoyed.

No. 261. So-called Enamelled and Engraved Glass, by French &

Richards, Philadelphia, is the best in the Exhibition, and the Judges remark the best ever exhibited here. The whole collection in all its variety, is beautiful in design and execution.

*A Second Class Premium.*

No. 675. Enamelled Stone Ware, by H. Remmey, Philadelphia.—Well formed goods, and an improvement in this useful manufacture.

*A Third Class Premium.*

No. 203. Glass Shades, by the Philadelphia Glass Company, deposited by W. P. Walter. These shades are equal to former Exhibition from the same maker, for which a premium was awarded.

No. 2086. Glass Paper Weights, by the New England Glass Company, deposited by Muzzy & Munroe, Philadelphia, sustain the high character of the Company for progress and enterprise.

No. 294. Ornamental Glass, by Cooper & Belcher, New York, deposited by R. Shoemaker, Philadelphia, fully sustains its excellent reputation.

No. 315. Stained Glass, by R. W. Roberts, Philadelphia. Creditable goods.

## XII.—SILVER WARE AND JEWELRY.

No. 318. Silver Centre Piece, "Good Samaritan," made and deposited by Taylor & Lawrie, Philadelphia. The design and execution of this testimonial is in every respect very superior.

*A First Class Premium.*

No. 434. Silver Ware, by W. Wilson & Son, Philadelphia. The beauty of design and superior workmanship of the several "Testimonials," exhibited by this firm, merit

*A First Class Premium.*

No. 691. Silver Ware, by Conrad Bard & Son, Philadelphia. The articles of utility, are of excellent workmanship and finish.

*A First Class Premium.*

No. 164. Masonic and Fancy Jewelry, by E. F. Baton, Philadelphia. Of superior workmanship and design; the best exhibited.

*A First Class Premium.*

No. 198. Hair Jewelry, by Miss A. Green, Philadelphia. Artistic and beautiful work.

*A First Class Premium.*

No. 309. Silver Small Ware, by G. P. Pilling, Philadelphia. Well and carefully made.

*A First Class Premium.*

## XIII.—SILVER PLATED AND BRITANNIA WARE.

No. 346. Silver Plated Ware, by J. O. Mead & Son, Philadelphia. This is the best display of such ware ever exhibited in this city; made and plated by the same manufacturer.

*A Recall First Class Premium.*

No. 454. Silver Plated Ware, by Hall & Boardman, Philadelphia.—Both body and plating and some of the articles are of first quality.

*A Recall First Class Premium.*

No. 269. Silver Plated Ware, by Hatting, Meyer & Warne, Philadelphia. In this deposit we quote the language of the Judges, as follows: "Invoice of plated silver ware, embracing a variety of pieces. As a whole it is deserving of commendation, and it requires that more than usual be said in reference to part of it; as we are informed that some of these articles were made and ornamented by a new process; accordingly the Judges selected one set of the ware for the purpose of ascertaining its merits. It appears that the manufacturers have substituted a new method in making, by which the expense of chasing is dispensed with, although the mode of manufacture is not fully known to the Judges, yet sufficient is known to enable them to say they consider it a decided improvement; because any pattern can be exactly reproduced, and at a cost which will enable the maker to sell a handsome article at a moderate price. The Judges would, therefore, desire to speak in the highest terms of this improvement in manufacturing." *A First Class Premium.*

No. 473. Silver Plated Waiters, by Jarvis & Cormerais, Boston, deposited by E. W. Carryl, Philadelphia. Plated on German silver; are of fine quality and the largest ever exhibited before the Institute.

*A First Class Premium.*

No. 472. Silver Plated Ware, deposited by E. W. Carryl, Philadelphia. Plating good, and some of the deposits of first quality. We notice with much favor some beautiful gold plated napkin rings, also the plating of cake baskets, and one beautiful chased pitcher; to the manufacturer

*A Second Class Premium.*

#### XIV.—AGRICULTURAL IMPLEMENTS.

The Judges in this department, report that they concur in the opinion expressed by the Judges of a former Exhibition, that the Annual recurring Fairs of the numerous Agricultural Societies now engaged in fostering this most valuable of all arts, offers greater facility than can be found in our Exhibition, for testing and fairly comparing the merits of the various implements used in Agriculture, and recommend that such deposits should hereafter be discontinued in our Exhibitions.

The following are therefore enumerated, without any special reference in regard to their excellence:

No. 19. Agricultural Implements, by Smith Harper, Fox Chase, Pennsylvania.

No. 184. Fertilizer, by G. A. Leinau, Philadelphia.

No. 185. Phosphate of Lime, by the same depositor.

No. 248. Cattle Powder, by P. D. Pierce, Philadelphia.

No. 276. Horticultural Implements, by Paschall Morris & Co.

No. 1120. Gourley's Patent Harrow. Deposited by G. B. Meteers, Philadelphia.

No. 1703. Mowing and Reaping Machine, by Rockafellow & Howell, Philadelphia.

No. 1779. Agricultural Implements, by D. Landreth & Son, Phila.



- No. 1737. Corn Planter, by J. D. Jeffers, Philadelphia.  
 No. 1752. Agricultural Implements, by Chas. Bradfield, do.  
 No. 1754. Clover Seed Gatherer, by Joshua Taylor, do  
 No. 1758. Gothic Corn Sheller, by Rogers & Boyer, do.  
 No. 1759. Manning's Mowing Machine, do. do.  
 No. 1761. Model do. by A. Herman, Camden, N. J.  
 No. 1834. Straw Cutting Machine, by W. Colladay, Philadelphia.  
 No. 1844. Hay and Grain Rake and Seed Sower, by Randall & Pratt, Delaware county, Pennsylvania.  
 No. 1845. Ketchum's Mowing Machine, by Howard & Co., Buffalo. Deposited by Paschall Morris & Co., Philadelphia.  
 No. 1847. Grain and Spice Mill, by A. Atwood, Troy, New York.  
 No. 1854. Pierpont's Grass and Grain Cutter, W. W. Pierpont, Salem, New Jersey.  
 No. 1856. Corn Sheller, by H. E. Smith, Philadelphia.  
 No. 1873. Churning Machine, by W. S. Reinert, do.  
 No. 1875. Mower and Reaper, by J. Manning, do.  
 No. 1878. "Young America" Feed Cutter. Deposited by C. Bradfield, Philadelphia.  
 No. 1976. Self-acting Farm Gate, by E. Dunbar, Philadelphia.  
 No. 1986. Potato Digger, by A. B. Hewling, do.  
 No. 2005. Cumming's Straw and Fodder Cutter, by W. H. Jones, Norristown.  
 No. 2018. Patent Churns, by E. Spain, Philadelphia.  
 No. 2020. Corn Planter, by R. Fenwick, Brooklyn, New York. Deposited by A. Spear.  
 No. 2049. Cabbage Cutting Machine, by J. Butterfield, Philada.

#### XV.—COTTON AND WOOLEN GOODS.

No. 120. Delaines, by the Hamilton Woolen Company, Southbridge, Massachusetts, deposited by Lafoucade, Cox & Co., Philada. These goods in chasteness of design and perfectness in printing fully sustain their high reputation, and in the cashmeres the Judges consider the dyeing and printing unsurpassed, and fully equal a previous Exhibition by this Company, for which they received a Gold Medal from the Institute. The Committee on Exhibitions have unanimously resolved to recommend to the Institute, to grant to the Hamilton Woolen Company

*A Recall Gold Medal.*

No. 145. Delaines, by the Manchester Print Works, Manchester, N. H., deposited by J. C. Howe & Co., Philadelphia. The very rich and



bold designs of these goods are at once striking and beautiful, and the happy combinations of rich coloring and skilful printing abounding throughout the entire assortment, entitle the manufacturers to the highest premium that can be given by the Institute. The Committee on Exhibitions in accordance with the above Report, have unanimously resolved to recommend to the Institute to grant the Manchester Print Works

*A Gold Medal.*

No. 161. Bleached Muslins, by Wamsutta Mills, New Bedford, Mass., deposited by Wood & Erringer, Philadelphia. Fully sustain their reputation for high excellence. Having received a first premium at a former Exhibition, we award

*A Recall First Class Premium.*

No. 208. Unbleached and Bleached Canton Flannels, 4-4 and 10-4 Brown Sheetings, Brown Drills, 7-8 and 4-4 Ticking, manufactured by David Longnecker, Lancaster Co., Penna., deposited by John Farnum & Co., Philadelphia. These goods fully sustain their excellent reputation and deservedly stand high in the estimation of the public. Having received a first premium at a former Exhibition, we now award them

*A Recall First Class Premium.*

No. 287. White Flannels, Ballard Vale Company, Mass., deposited by Farnham, Kirkham & Co., Philadelphia. The goods from this Company have very justly held a high celebrity, but the Judges consider those now exhibited surpass in fineness of texture, material, and manufacture, any thing of the kind ever before exhibited. The deposit consists of flannels made of cotton and wool, all wool, and silk and wool.

*A First Class Premium.*

No. 604. Fancy Cassimeres, by American Mills, Rockwell, Conn., Thomas Barrow, Jr., Agent, deposited by Hacker, Lea & Co., Philada. A new article in American goods of beautiful style and superior quality, bearing a close resemblance to French goods of same character.

*A First Class Premium.*

No. 160. Ladies' all Wool Shawls, by James Roy & Co., Watervliet, New York, deposited by Wood & Erringer, Philadelphia. The Judges deem this deposit the most superior in quality and style that has ever come under their notice, and they consider that for skill of manufacture, beauty of fabric, and perfection of colors, they deservedly occupy the highest rank.

*A First Class Premium.*

No. 316. 6-4 Tufted Talma Cloth, by Bridgeport Woolen Mills, Bridgeport, Connecticut, deposited by J. C. Howe & Co., Philadelphia. A novel production closely resembling the foreign article of similar style, and do great credit to the manufacturer.

*A First Class Premium.*

No. 162. Bed and Crib Blankets, by Newitchawanoek Co., South Berwick, Maine, deposited by Pease & Brown, Philadelphia. Most superior, and excel anything heretofore seen by the Committee of this kind.

*A First Class Premium.*

No. 156. Table Diaper, by John Whiteside, Philadelphia. Very excellent goods and fully entitled to

*A First Class Premium.*

No. 270. Cotton Cloak Linings, by Thomas Munroe & Co., N. York, deposited by Thomas R. Gill, Philadelphia. For the very great variety, perfection of coloring, beauty of style and printing, are unequalled by any your Committee have ever seen exhibited, *A First Class Premium.*

No. 397. Printed Calicoes, by Manchester Print Works, N. H., deposited by J. C. Howe & Co., Philadelphia. Beautiful in design and coloring. For superiority in printing we award *A First Class Premium.*

No. 375. Cotton and Wool Shirts and Drawers, by Newark Hosiery Company, Newark, N. J., deposited by W. E. Lockwood, Philadelphia. Of very superior texture. *A First Class Premium.*

No. 127. Fancy Cassimeres, Millville Manufacturing Co., Millville, Mass., deposited by Farnham, Kirkham & Co., Philada. Excellent styles and well made, but of ordinary wool. *A Second Class Premium.*

No. 129. Fancy Cassimeres, Broadbrook Manufacturing Co., Conn., deposited by Farnham, Kirkham & Co., Philadelphia. Are composed of silk and wool, and a fair specimen of American manufacture. *A Second Class Premium.*

No. 199. Tweeds, by Elm St. Manufacturing Co., Providence, R. I., deposited by F. G. Swan, Philada., are composed of cotton and wool, and so well blended as to entitle the goods to the rank of an Union Cassimere, closely resembling an all wool article of much higher cost. *A Second Class Premium.*

No. 686. Black Cotton Warp Cloth, J. M. Church & Sons, Middlefield, Massachusetts, deposited by Dulles & Hewson, Philadelphia. Are well made and of excellent stock. *A Second Class Premium.*

No. 233. Gingham and Checks, by James Long, Philadelphia. For the gingham, *A Second Class Premium.*

No. 229. Spool Sewing Cotton, by B. J. Shreve, Mt. Holly, N. J. An excellent article. *A Second Class Premium.*

No. 265. Checks, by W. J. Watt, Philadelphia. These goods are deservedly popular. *A Second Class Premium.*

No. 139. Bleached Muslins, by W. A. Howard, Providence, R. I., deposited by Fales, Lothrop & Co., Philadelphia. Are highly creditable goods, and the production of a new mill. *A Third Class Premium.*

No. 128. Fancy Cassimeres, by Merrimac Woolen Company, Dracot, Mass., deposited by Farnham, Kirkham & Co., Philadelphia. Are fair goods.

No. 200. Fancy Cassimeres, Sexton's Warehouse Point Manufacturing Company, Connecticut, deposited by F. G. Swan, Philada. Very fair goods and highly creditable to the manufacturer.

No. 190. Canton Flannels, by S. Riddle, Delaware County, Penna. Fair merchantable goods.

No. 232. Table Damask Diaper, by C. Porter, Philadelphia. Are fair goods.

No. 262. Cottonades, Joseph Ripka, Philadelphia. Well made, excellent styles, and highly creditable.

No. 332. Wool in the Fleece, deposited by Coates & Brown, Philada. Are the finest that the Judges have ever examined, and fully establish the fact that wool of the finest quality can be grown in this country.

#### XVI.—SILK GOODS.

No. 619. Oil Silks, by S. Wright & Son, Philadelphia. The colors are clean and good, and the article well got up. Having received a first premium at a former exhibition, we award *A Recall First Class Premium*.

No. 267. India Rubber Silk, by Webster & Leberman, Philadelphia. A new process as applied to silk or any other light fabric; no appreciable odor, and the colors well sustained. The deposit consists of the various articles of utility, such as dresses, cloaks, capes, &c.

*A Second Class Premium.*

No. 678. Machine Sewing Silk, by Gurney & Co., New York, deposited by Charles Lang. Three cord silk, quality fair, color good, and superior to former exhibition of the same article.

*A Third Class Premium.*

#### XVII.—STRAW GOODS.

No. 359. Case of Straw Goods, by Thomas White & Co., Philadelphia, consisting of Italian pedal hat, English patent cap, American straw hat and split straw bonnet. The sewing, bleaching, shape, and finish, are all very superior, and do much credit to the depositors. They received a first premium at a former Exhibition, and we award to this deposit,

*A Recall First Class Premium.*

#### XVIII.—UMBRELLAS.

No. 300. Umbrellas, by William A. Drown, Philadelphia. A collection of most excellent silk umbrellas, the handles in particular are elegant and chastely executed, and the whole deposit will compare favorably with any imported or domestic, and fully sustains this manufacturer's well known reputation.

No. 430. A small invoice of elegantly made light Silk Umbrellas, by W. H. Richardson, Philadelphia. The bamboo stick and handles, render them desirable to all who desire a light silk umbrella.

The Judges remark that umbrellas manufactured in Philadelphia are superior to any imported from Paris or London.

## XIX.—COACH WORK.

No. 1672. Lumber Cart, by R. B. Scott, Philadelphia. Well adapted for the purpose ; substantially built and neatly painted.

*A Third Class Premium.*

No. 1679. Fire Hose Carriage, by J. Young & Son, Philadelphia.—Very tasty in design and built in superior style, and very creditable to the maker.

*A Third Class Premium.*

No. 1881. Children's Carriages, by Bushnell & Tull, Philadelphia. Ordinary specimens, with the exception of a four wheeled phaeton, which is a neat and well finished little carriage, and for which we award

*A Third Class Premium.*

No. 2036. Velocipede "Young America," by John Cline, Philadelphia. Well constructed and creditable.

*A Third Class Premium.*

No. 1775. Trotting Wagon, by J. S. Collins & Son, Camden, New Jersey. A very neat, proportionable, and well executed piece of work.

No. 615. Carriage Bolts, by T. & W. Shields, Philadelphia. Creditable work.

No. 1673. Cart, by R. B. Scott, Philadelphia. Creditable to the maker.

No. 1704. Patent Child's Carriage, by J. & C. Berrien, New York. Deposited by J. H. Gould, Philadelphia. A creditable article.

No. 1818. Buggy Wagon, by Lane & Co., Philada. A fair article.

No. 1861. Velocipedes, by W. Quinn, Philada. Fair work.

No. 1915. Boy's Sledges, by N. Stratton, New Haven. Ordinary specimens.

No. 1939. Child's Carriage and Rocking Horse, by C. Asker & Son, Philada. Ordinary.

## XX.—SADDLERY, HARNESS AND TRUNKS.

No. 457. Saddles and Harness, by Lacey & Phillips, Philadelphia. This deposit shows excellent taste, in style of mounting ; great care in selection of leather, beauty of finish, neatness and faultless workmanship throughout. A traveling trunk in this deposit surpasses all others in the Exhibition in perfection of workmanship, strength, convenience and finish.

*A First Class Premium.*

No. 388. Cart Harness and Breeching, by M. Magee & Co., Philada. Substantial and handsome work ; intended for the Southern market.

No. 387. Saddles, by the same depositors. All over quilted side saddle and illuminated Mexican saddle ; is a sample of their fine work. For the skill and workmanship in this deposit, the Judges award

*A Second Class Premium.*

No. 519. Leather Hat Box, by W. Topfer, Philadelphia. Beautifully stitched, with collar case and other conveniences ; silk lined and padded. A superior piece of work.

*A Second Class Premium.*



No. 372. Military Spur, by James S. Ewbank, Washington City. Dispensing with buckle and strap, it can be adjusted very readily to any sized heel; it being jointed, can be conveniently carried in the pocket.

*A Second Class Premium.*

No. 172. Patent Leather Collars, by W. R. Scott. Shows fine work and durability.

*A Third Class Premium.*

No. 399. Harness and Saddles, by W. U. Moyer, Philada. A very good display.

The following Trunks and Valises are all made in good style and fair in point of workmanship.

No. 296. By T. W. Mattson, Philadelphia.

No. 516. By A. T. Hickey, do.

No. 584. By A. L. Hickey & Sons, do.

No. 1895. By J. Unruh, do.

No. 1970. By Matthew Goss, do.

## XXI.—CHEMICALS.

In this department, the Committee on Exhibition in justice to the depositors would remark, that their limited space in this report will not allow to give in detail all the remarks of the Judges on the various specimens by each depositor. But should more than the following digest be required for publication by any depositor, a certified copy of the report in regard to his deposit, will be furnished by the Chairman of the Committee.

No. 431. } Chemicals for Medicines and the Arts, by Powers &  
No. 432. } Weightman, Philadelphia. Taken as a whole in quantity, quality, variety and beauty, this deposit exceeds any other yet exhibited under the auspices of the Institute, within the recollection of the Committee. It includes 124 distinct specimens, many of them rare and beautifully crystallized.

The specimens of alum include one massive section of a tub crystallization, weighing nearly a ton. They are all ammonia alum, the manufacturers finding it cheaper to use the ammoniacal than the potash salt.

The Judges recommend a special award to the manufacturers, for the skill and enterprise presented in this deposit. The depositors at a previous Exhibition having received a Gold Medal, the Committee on Exhibition have unanimously resolved, to recommend to the Institute to grant to the depositors

*A Recall Gold Medal.*

No. 236. Chemicals, by Rosengarten & Sons, Philadelphia. This invoice includes 73 specimens of chemicals and pharmaceutical preparations, which for quality and beauty fully sustains the well deserved reputation of these manufacturers. The oxide of zinc we find free from carbonic acid, with only a trace of iron and sulphuric acid; and some of the preparations are new medicinal chemicals. The Committee believe



this display to be superior to that of 1854, at which the depositors received a first premium, and now award them

*A Recall First Class Premium.*

No. 666. Pharmaceutical and Chemical Preparations, by Chas. Ellis & Co., Philadelphia. The general excellence of the articles in this deposit merit commendation, and fully equal those of a similar kind at a former Exhibition, when the depositor received a first premium. We now award

*A Recall First Class Premium.*

No. 333. Brimstone in Rolls and Crystalline masses, refined by F. Shloss, New York, deposited by W. Gulager & Bro., Philadelphia, deserves particular notice for its fine appearance and purity.

*A First Class Premium.*

No. 133. Cyanide of Potassium, by H. W. Worthington, Philadelphia. The finest specimen of this important chemical that has yet been offered on exhibition. In the same deposit we notice a beautiful lot of Prussiate of potash of excellent quality. For the cyanide of potassium,

*A First Class Premium.*

No. 385. Ox. Cobalt, } By Buck, Simonin & Co., Philadelphia.

No. 386. Metallic Nickel, } The cobalt is so good, that it is in high repute in the pottery manufactories of England; the nickel is the best to be had in the United States.

*A First Class Premium.*

No. 126. Fine Chemicals, made and deposited by Hennell Stevens, Philadelphia. These specimens, though small, possess considerable interest. For the glycerine, in view of its good quality, when it is considered that it is prepared from the crude article of commerce,

*A Third Class Premium.*

No. 31. Ammonia Ferric Alum, by John E. Carter, Philadelphia.—This specimen of iron alum, meets especial notice for its crystal; two of which are perfect octohedrons of two inches base. This salt has recently been introduced into materia medica, and is the first exhibition of its kind.

*A Third Class Premium.*

No. 38. Prussiate Potash, by Carter & Scattergood, Philadelphia, is of excellent quality and fully sustains the reputation of the manufacturer.

No. 93. Glycerine Cream, } By H. A. Bower, Philada. The former  
Seidlitz Powders, } used as an emollient application to relieve chapped and excoriated skin.

No. 103. Solid and Fluid Citrate of Magnesia, by S. C. Shepherd, Philadelphia. The former is intended as a portable for the officinal solution, which tends to spoil by keeping.

No. 169. Ferruginous Chocolate, } By E. Pincus, Philadelphia. The  
No. 170. Spanish do. } Spanish Chocolate is well pre-  
No. 171. Mustard for table use, } pared and delightfully flavored.  
The Ferruginous is put up in small tablets in circular boxes, and is intended as an agreeable chalybeate.

No. 231. Spread Plasters, by W. H. Pratt, Philadelphia, are well

spread ; a variety of kinds such as Burgundy-pitch, hemlock, arnica, &c. They are the best in the Exhibition.

No. 244. Pharmaceutical Preparations, by E. H. Hance, Philadelphia. Consisting of 42 specimens of extracts, fluid extracts, syrups, &c., and are generally of good quality.

No. 302. Glassware, by John Capewell, Philadelphia, chiefly for druggists' furniture bottles, show jars, &c. They are well formed and free from imperfection in the crystal, but the stoppers are generally badly fitted.

No. 323. Model Pill Counter, by C. C. McGlathery, Philadelphia, by which oval boxes are filled with pills, but as the number depends upon the *size* of the pill, it should be called a pill measurer.

No. 384. Saltpetre, by C. & C. C. Henshaw, Philadelphia, crystallized and granulated. The crystals are well formed.

No. 597. Atwood's Patent Alcohol, by Z. Locke & Co., Philadelphia. Of excellent quality, free from fusil oil or whiskey odor ; well suited to the purposes of the druggist and perfumer.

No. 1685. Drug Mill, by B. Swift, New York, deposited by J. G. Richardson; has been in use for a number of years in Philadelphia for small operatives in drug grinding, and has proved very efficient and useful.

## XXII.—SOAPS AND PERFUMERY.

No. 263. Candles, by Thain & McKeone, Philadelphia. Stearine blocks and candles. The latter have much the appearance of sperm; burn with a beautiful white light and free from smell. *A First Class Premium.*

No. 963. Patent Economic Tallow Candles, by Garcin & Co., Philadelphia. These candles present a very neat appearance, the tallow being prepared by a chemical process which renders it whiter and harder; the candles are more durable; burn with a good flame; run less than ordinary mould; burn a longer time; will stand a higher temperature without softening, and cost no more than mould candles. One-sixth of a pound burned 8 hours, costing one-third of a cent per hour.

*A First Class Premium.*

No. 51. Oleine Soap, by Barry & Boyd, Philadelphia. Of very good quality for domestic use, being firm, light colored, and very detergent.

*A Second Class Premium.*

No. 194. Soaps, Candles, &c., by J. R. Graves & Co., Philadelphia. These depositors have received a first premium for their soaps at a previous Exhibition, and for superior adamantine candles in the present deposit, we award them

*A Second Class Premium.*

No. 194. Concentrated Ley, made by Pennsylvania Salt Co., deposited by J. R. Graves & Co., Agents, is recommended to be referred to the Committee on Science and the Arts.

No. 78. Assortment of Perfumery, by E. McClain, Philadelphia. We notice particularly his shaving soap as being of excellent quality.

*A Third Class Premium.*

No. 11. Transparent Soap, by A. Brocard, Philadelphia. Very good.

*A Third Class Premium.*

No. 266. Fancy Soaps, by L. Franks, Philadelphia. Very neat imitation of the imported.

*A Third Class Premium.*

### XXIII.—PAINTS AND ARTISTS' COLORS.

No. 493. Water Colors, by G. W. Osborne & Co., Philadelphia, are of excellent quality.

*A First Class Premium.*

No. 299. Paints and Colors, by Gilsborough Works, Camden, N. J., deposited by J. Lucas & Co., Philadelphia. Colors generally good.

### XXIV.—WIGS.

No. 461. A Case containing a large assortment of Wigs, Toupees, Curls, &c., by Richard Dollard, Philadelphia. What is called the transparent wig and toupee, are intended to show the natural skin through the fabric wherein the hair is inserted. They are extremely light and differ materially from many imitations hitherto in use. The depositor has brought this branch of manufacture to a very close approximation to nature.

### XXV.—PHILOSOPHICAL APPARATUS.

No. 533. Municipal and Railroad Telegraph and Fire Alarm, by Phillips & Robinson, Philadelphia, is intended for situations where it would be operated upon by police officers and others who would not have the opportunity of learning the alphabet of the Morse instrument, and where the House instrument would be too expensive and delicate. It appears remarkably simple and effective. The fire alarm telegraph has been well tested in the city, and presents advantages over any other form yet introduced.

*A First Class Premium.*

No. 32. A new Form of Protractor, by H. W. Poole, Pottsville, Pa. The Judges remark that they cannot report upon this deposit without a careful explanation and trial. They therefore recommend to the depositor its reference to the Committee on Science and the Arts.

No. 527. Air Pump, by E. S. Ritchie, Boston, deposited by J. W. Queen, Philadelphia. Very beautifully made, and with a form of upper valve which seems to be exceedingly delicate and effective. As it would require much time and a better opportunity for a fuller examination, it is suggested to the depositor to refer the apparatus to the Committee on Science and the Arts.

No. 579. Spirit Level, by L. Brooks, Great Falls, N. H., deposited by L. E. Slow, is recommended for examination to the Committee on Science and the Arts.

No. 681. Microscope, by J. Schnaitman, Philadelphia. Apparently well made. It is impossible to express any opinion regarding its merits, except by a careful trial, which can be made by the depositor referring it to the Committee on Science and the Arts.

No. 1764. Mercury Steam Gauge, by Hurford & Feast, Canton, Ohio. These deposits are recommended to the Committee on Science and the Arts.

No. 1742. Improved Mercury Gauge, by William Gee, New York, deposited by W. B. Le Van.

No. 21. Telegraphic Instruments, by Hinds & Williams, Boston. Remarkable for fine finish.

No. 49. Philosophical Apparatus, by Wilson H. Pile, Philadelphia. The specific gravity apparatus is fully equal to that which received a first premium at a former Exhibition.

No. 109. Druggists' Scales and Weights, by H. Troemner, Philadelphia. Fully equal to former displays, for which first premiums have been awarded.

No. 153. Galvanic Battery, by Dr. S. B. Smith, New York, deposited by Dr. W. H. Hazzard, Philadelphia. Neat, compact, and cheap.

No. 192. Mathematical Instruments, by H. Hartman, Philadelphia. Quite equal to those deposited by Hartman & Saxe, and for which, a first premium was awarded at a former Exhibition.

No. 214. Instruments for the Cure of Stammering, by R. Bates, Philadelphia. After a Report by the Committee on Science and the Arts, a Scott Legacy Medal and first premium was awarded at a former Exhibition. They have since been considerably improved.

No. 226. Movable Planisphere of the Heavens, by H. Whitall, Philadelphia. An exceedingly convenient and ingenious instrument. It has been favorably reported upon by the Committee on Science and the Arts.

No. 322. Mathematical Instruments, by C. A. Saxe, Philadelphia. Theodolite of good workmanship. Lithographic ruling machine, neat and well made.

No. 336. Philosophical Apparatus, by McAllister & Co., Philadelphia. A first premium has been awarded to these depositors at a former Exhibition. The present display is of great variety and excellence.

No. 349. Mathematical Instruments, by Amsler & Wirz, Philadelphia. Fully equal to former Exhibition at which they received a first premium.

No. 396. Philosophical Apparatus, by L. C. Francis, Philadelphia. Of excellent finish and low price.

No. 494. Philosophical Apparatus, by W. C. & J. Neff, Philadelphia. The electro-magnetic machine with rolling armature, an exceedingly powerful and convenient form of the apparatus, deserving high commendation.

No. 526. School Apparatus, by Holbrooke School Manufacturing Co., Holbrooke, Mass., deposited by J. W. Queen, Philadelphia. Very good.



No. 528. Mathematical and other Apparatus, deposited by J. W. Queen, Philadelphia. A very creditable display. The Judges call attention to this depositor's reproduction of engine divided scales on card boards, fully equal to the English original Holtzapffel.

No. 529. Electro-Magnetic Machine, by S. B. Smith, New York, deposited by W. H. Hazzard, Philadelphia. Neat, cheap, and efficient.

No. 537. A Machine of Similar Construction, by Dr. Dickenson, Philadelphia, to which the same remark will apply.

No. 540. Electric Machine, by E. J. Ritchie, Boston, deposited by J. W. Queen, Philadelphia. A convenient form for certain purposes.

No. 665. Regulator Clocks, Duplex movements, by Heitel & Bro., Philadelphia. Exceedingly simple, convenient, and beautiful.

No. 1778. Scales, by Abbott & Co., Philadelphia. The beam for the weigh lock of the Union Canal appears of capital workmanship, beautifully arranged and proportioned.

No. 1864. Lightning Rods, by A. C. Brown, Philadelphia. The brush at the top is well made and of good form.

No. 2012. Diffusive Daylight Reflector, } by W. F. Pullinger,

No. 2013. " Gaslight " } Beverly, New Jersey.

A very neat form of reflector for breaking up the reflected beam of light and diffusing it through the room.

## XXV.—SURGICAL INSTRUMENTS.

No. 680. Gold and Silver Surgical Instruments, by John S. Warner, Philadelphia. Fully equal to those for which he received a first premium at a former Exhibition. *A Recall First Class Premium.*

No. 562. Surgical Instruments, by J. H. Gemrig, Philadelphia. Fully equal in design, style, finish and general excellence, to the best foreign. *A First Class Premium.*

No. 312. Restraining Apparatus for the Insane, by J. S. Fisher, Philadelphia. Excellent in design, strong and well made, deserving of general adoption. *A Third Class Premium.*

No. 210. Family Syringes, by Mattson & Co., Philadelphia. Neat, serviceable and convenient. *A Third Class Premium.*

No. 364. Glass Syringes and Bottles, by Thomas Burns & Co., Philadelphia. Sustain their reputation.

No. 305. Artificial Leg, by B. F. Palmer, Philadelphia. This apparatus has received the first premium, Scott's Legacy Medal and premium from the Franklin Institute. It is now universally admitted by those competent to judge, to be the best ever constructed.

No. 5. Surgical Bandages, by Dr. and Mrs. McClenaghan.

No. 147. Trusses and Surgical Bandages, by C. Marsh & Co.

No. 325. Trusses and Surgical Bandages, by B. C. Everett.

The before mentioned three deposits are all well designed for their purposes, and are of the highest style of finish. The Committee do not feel warranted in giving preference to one above the other.

## XXVI.—DENTISTRY.

No. 392. Artificial Foil, Files, &c., by Jones, White & McCurdy, Philada. These gentlemen claim the following as improvements in their teeth. A close imitation of the natural organs; a great variety of shapes in conformity with nature; the thickening of the posterior edges of the canines and bicusps, in conformity with the gradual filling out of the natural organs from the incisors to the molars; a greater capacity to withstand the extremes of temperature to which they must be exposed; the peculiar blending of the tints in imitation of nature; the shape of the bases of the gum teeth for half and entire dentures, and their more perfect adaptation to the plates with but little grinding. Also, a great improvement in the enamel surface, which is divested of that glassy, reflecting character so unnatural, and which has hitherto been so objectionable in artificial teeth. Most of these improvements, especially those which relate to the shape, articulating and enamel surfaces, are of a high order of merit, and entitle them to

*A Recall First Class Premium.*

No. 279. Artificial Teeth, Corundum Wheels, &c., by Orum & Armstrong, Philadelphia. The depositors present great improvements upon their previous deposit at our last Exhibition. For the improvement

*A Second Class Premium.*

No. 308. Artificial Teeth, Plate Work, &c., by W. C. Eastlack, Philadelphia. The plate is well finished and very creditable to the maker.

*A Third Class Premium.*

No. 280. Dental Furnace, by A. Marshall, Delaware. These furnaces have a good reputation. The one on exhibition appears to be well made.

No. 117. Apparatus for the production of Local Anesthesia by Refrigeration, for Dental purposes, by E. C. Stockton, Philadelphia, is very simple in construction, but as its practical value can only be tested by experience, the Committee can form no just opinion of its merits.

## XXVII.—MUSICAL INSTRUMENTS.

No. 572. Guitars, by J. Berwind, Philadelphia. Very superior in tone and finish.

*A Recall First Class Premium.*

No. 436. Square Piano, by Bacon, Raven & Co., New York, deposited by J. E. Gould, Philada. For purity and volume of tone, delicacy of touch and evenness of action, qualities, which constitute a perfect piano,

*A First Class Premium.*

No. 462. Grand Piano, by Birgfeld & Ramm, Philada. The Judges are unanimous in awarding to this instrument, superiority of tone, but differ in the grade of premium to be recommended. The Committee on Exhibition, therefore, have decided to grant the award of

*A First Class Premium.*

No. 439. Organ Harmoneum, with Pedals, by Mason & Hamlin, Boston, deposited by J. E. Gould, Philada. This instrument supplies a want heretofore existing. It is specially adapted to Churches of medium size, &c. For its portability, variety and volume of tone, ease of performance, and comparatively low cost, it is superior in these respects to any reed instrument within our knowledge, and to be preferred to many organs of twice its cost.

*A First Class Premium.*

No. 1127. Square Pianos, by W. Knabe & Co., Baltimore. Are very excellent in tone and action.

*A Second Class Premium.*

No. 727. Grand Pianos, by T. Gilbert & Co., Boston. In some respects a very excellent instrument and deserving of honorable mention.

No. 500. Cornet-a-Piston, Silver Plated, by T. J. Weygandt, Philadelphia. This instrument is considered very superior; is made with a single turn, doing away with the many turns to be met with in the ordinary cornet, and very much improving the tone. It also has a valve midway in the turn, which permits the water to escape at the option of the performer. The Judges recommend a First Premium. But Mr. Weygandt being a member of the Committee on Exhibition, under the rules, cannot receive the Premium.

## XXVIII.—FINE ARTS.

No. 174 to 182. Stereoscopic Daguerreotypes, &c., by J. F. Mascher, Philadelphia. The Judges were much pleased with the locket as a ladies' companion. For the general application of the whole deposit,

*A Recall First Class Premium.*

No. 391. Papier Mache on Panels, made and deposited by D. D. Dick, Philadelphia. A beautiful deposit, which we consider a fine specimen of the art.

*A Recall First Class Premium.*

No. 138. Fancy Bead and Brush Work, by the pupils of the Pennsylvania Institute for the Instruction of the Blind. A good display, exhibiting great taste and ingenuity.

*A Recall First Class Premium.*

No. 212. Wax Fruits, Flowers and Shell Work, made and deposited by Mrs. R. Bunn, Philadelphia. For their very great beauty, and truthful imitation,

*A First Class Premium.*

No. 277. Ambrotypes and Mezzographs, by Isaac Rehn, Philadelphia. The Judges would be pleased to see the art extended to the production of positive pictures upon paper, that they might be readily duplicated for scientific purposes. For the photographic views of the microscopic world, we award

*A First Class Premium.*

No. 347. Embossed Veneers, made and deposited by Israel Amies, Philadelphia. A novel and useful invention of general applicability and great durability.  
*A First Class Premium.*

No. 368. Carved and Gilt Mirror Frames, made and deposited by A. S. Robinson, Philadelphia. Elaborately designed and elegantly executed.  
*A First Class Premium.*

No. 444. Photographs on Glass, by F. Langenheim, Philadelphia.—Special mention is made by the Judges of the foliage.  
*A First Class Premium.*

No. 447. Large Ornamental Gilt Frame, made and deposited by J. S. Earle, Philadelphia, of original design and beautiful finish, showing much superiority in gilding.  
*A First Class Premium.*

Nos. 449 and 450. Photographs and Portraits on Glass, by Richardson & Betts, Philadelphia. Special mention is made of stile life. (Artist's Studio.) The large untouched paper portrait and the ambrotype vignette portrait, for general excellence  
*A First Class Premium.*

No. 489. Case of Leather Flowers and Insects, made and deposited by A. Williamson, Philadelphia. Novel and beautiful workmanship.  
*A First Class Premium.*

No. 492. Daguerreotypes and Photographs, by W. L. Germon, Philadelphia. The cabinet picture of two ladies, with landscape back ground, worthy of the highest commendation for colored photography.  
*A First Class Premium.*

No. 503. Stained Glass, made and deposited by J. & G. H. Gibson, Philadelphia. The Judges consider it the best display yet exhibited.  
*A First Class Premium.*

No. 68. Ambrotypes and Daguerreotypes, by O. H. Willard, Philadelphia. For the ambrotypes,  
*A Second Class Premium.*

No. 94. Wax Fruit and Flowers, by Mrs. J. Caris, Philadelphia. For the flowers,  
*A Second Class Premium.*

No. 165. Moulding Designs and Patterns, by G. Pelman, Philada.—For beauty and delicacy of design and workmanship,  
*A Second Class Premium.*

No. 282. Drawing of a Locomotive, by Edward Page, Philada.  
*A Second Class Premium.*

No. 611. Machine Drawing, by P. Munsinger, Philada.  
*A Second Class Premium.*

Nos. 719 and 1115. Ivory Carvings, by Harvey & Ford, Philada.—For the images,  
*A Second Class Premium.*

No. 3. Ornamental Glass Panels and Table, by G. Walters, Philada. Commendable on account of their cheapness.  
*A Third Class Premium.*

No. 74. Drawing of a Locomotive, by Samuel Bower, Philada.  
*A Third Class Premium.*



No. 80. Stuffed Birds, by John Krider, Jr., Philada. Summer duck, partridges, and cedar birds. *A Third Class Premium.*

No. 173. Gilt Mouldings, by Thery & Kruse, Philada. For imitation of gilt, *A Third Class Premium.*

No. 558. Vase of Flowers, by the Misses Jones, Philada. To Miss Constantine Jones, aged 11 years, *A Third Class Premium.*

No. 1101. Rustic Figure of an Old Farmer, made throughout of the Indian Corn Plant, made by T. Fergus, West Chester, deposited by M. B. Thomas. Truly an artistic piece of work, but the Judges would be pleased to see such talent devoted to a better purpose. For this specimen of "the oldest inhabitant," *A Third Class Premium.*

No. 30. Specimens of Writing, deposited by S. H. Crittenden, Philadelphia. Worthy of notice as beautiful specimens of penmanship.

No. 104. Rosewood Imitation, by W. B. Snyder, Philada. Noticed for accuracy of imitation.

No. 337. Bronze Castings, by — Leconte, Jr., Philada., are worthy of notice for delicacy of work.

No. 511. Acanthus Flower in Plaster, by Thomas Heath, Philada., possesses the usual qualifications of this gentleman's work.

No. 513. Painting, "Flying Cloud," by W. V. Bonfield, Beverly, N. Jersey. Meritorious.

No. 538. Hair Work, by S. E. Albrick, Philada. Creditable piece of work.

No. 601. Machine-Carved Block Letters, by W. C. Murphy, Philada. A creditable display.

No. 606. Plaster Images, by H. Maguire and F. Gossin, Philada.—Superior specimens.

No. 698. Crayon Drawing, by A. W. Janvier, Philada. Worthy of notice.

No. 700. Patent Melanotype Plate, by James Cremer, Philada. An ingenious application of a new metal to Photography.

No. 702. Large Bird Cage, by E. Mosemann, Philada. Very ornamental and ingenious.

Nos. 704 and 706. Fancy Embossed Frame and Fancy Picture, by Misses E. & C. Johnston, Philada. Worthy of notice for delicacy of execution.

The Judges are pleased to notice as the work of Alexander H. Briscoe, a bas-relief likeness of our old fellow-citizen, Henry M. Zollickoffer, it is a fine piece of workmanship, accurately modelled and beautifully finished, reflecting much credit upon the maker.

## XXIX.—BOOKS AND STATIONERY.

No. 524. Steel Pens, called the Washington Medallion Pen, by the American Steel Pen Manufacturing Company, New York, deposited by A. Granger, New York, have a fine point, are well finished, and allow the ink to flow freely; they are superior to many English Pens.

*A First Class Premium.*

No. 735. Parchment Paper, by J. M. Wilcox & Sons, Philada. Quite as strong as parchment; more pleasant to write on, and from the fact that it can be afforded at about one-half the price of imported parchment, it must come into general use. We consider this article as of very great importance.

*A First Class Premium.*

It may not be generally known, but as an important fact it is worthy of mention, that a paper deed is much safer as a document in a fire proof during a hot fire than the real parchment, as the latter by heat shrivels up and becomes worthless, while the former will remain unimpaired.

No. 497. Blank Books, by D. M. Hogan, Philada. Uncommon neatness and accuracy of ruling, an important item; strength and durability of binding joined with workmanlike finish.

*A First Class Premium.*

No. 531. Fancy Printing, by E. Ketterlinus & Co., Philada. A splendid exhibition of fancy and ornamental printing; a portion of which is comparatively a new branch of the art in this country, which has been heretofore supplied by importation.

*A First Class Premium.*

No. 1905. Book Folding Machine, by Chambers, Brother & Co., Philadelphia, displays superior mechanical skill, great simplicity, and its utility is proved that with one attendant, it will perform better work than five females can by the old method.

*A First Class Premium.*

No. 136. Card and Bonnet Boards, by A. M. Collins & Co., Philada. Of very superior quality and finished in an excellent manner.

*A Third Class Premium.*

No. 249. Map Adjuster, by W. Stott, Philadelphia. An useful application and deserving of notice.

*A Third Class Premium.*

No. 275. Carmine Ink, by W. C. Bakes, Philadelphia. Superior quality.

*A Third Class Premium.*

No. 1896. Patent Card Printing Press, by G. P. Gordon, New York, deposited by Howell Evans, Philadelphia. The depositor claims that this press will cut, print, and count off 10,000 cards per hour, and produce good work. For a more careful examination than the Judges have been enabled to give, it is recommended to the depositor to submit the machine to the Committee on Science and the Arts.

No. 1975. Hand Printing Press, J. W. Cooper, Philadelphia. Recommended to be referred to the Committee on Science and the Arts.

No. 731. Fife's Patent Oblique Gold Pen, by Jones & Morgan, Philadelphia, sustains fully their high reputation.

No. 18. Binding Boards, by Theodore Megargee, New Leeds Mills, Cecil County, Maryland. Superior specimens.

No. 39. Envelopes, by R. T. Knight, Philadelphia. A decided improvement over all others.

No. 75. Embossed Cards, by W. F. Scheible, Philadelphia. Rich in design and beautiful execution.

No. 134. Letter Press, by Oliver Evans. Well made.

No. 256. Blank Books, by William Mann.

No. 414. " W. F. Murphy.

No. 523. " W. H. Maurice.

All very creditable specimens of blank work.

No. 295. Eylet Machine, by H. L. Lipman, Philadelphia. Possesses a new and useful addition, increasing its convenience.

No. 310. Bibles, by J. B. Perry. Bound in the very best "Perry" style.

No. 317. Specimen of Printing, by H. A. Brown, Philadelphia. A beautiful specimen of the typographic art.

No. 425. Patent Framed School Slates, by E. Young, Philadelphia. The oval shape of the frame in many respects, renders them more desirable than the ordinary square.

No. 428. Pocket Books, &c., by F. H. Smith, Philadelphia, sustain their high reputation.

No. 488. Invoice of Fine Bound Books, by J. W. Moore, Philada. Deserving in every respect high praise.

No. 539. Daguerreotype Bibles, by Perry & Erety, Philadelphia. A new and beautiful feature in binding.

No. 591. Specimens of Printing, by Sturdivant & Maas, Philadelphia. Good work.

No. 697. Fine Bound Books, by S. F. Kerns, Philada. Decidedly of very great merit.

No. 722. Printing, by A. C. Bryson, Philadelphia. Beautiful work.

### XXX.—LEATHER AND MOROCCO.

No. 1835. Sole Leather, by C. B. Williams, Philadelphia. Very superior, fully maintaining the character of the deposit, for which he received a premium at a previous Exhibition.

*A Recall First Class Premium.*

No. 1751. Slaughtered Sole Leather, by George S. Downing & Son, Wilmington, Delaware. Very superior tannage.

*A First Class Premium.*

No. 1902. Dry Hide Sole Leather, by J. Hoffman, East Waterford, deposited by Prichett, Baugh & Co. Very superior.

*A First Class Premium.*

No. 23. Saddle Skirting, by Jacobus & Co., Newark, New Jersey. An excellent article.

No. 458. Harness Leather, deposited by Samuel S. Armstrong, Philada. Finished in good style.

No. 459. Wax Splits, by the same maker. An excellent article.

No. 1839. Shaved Harness, by James Bousted, Philadelphia. Worthy of notice for superior finish.

No. 2019. Wax Upper Leather, by Chambers & Cattell, Philadelphia. Worthy of notice, an excellent article.

No. 2035. Sole Leather Belts for Machine Belting, by W. F. Forepaugh, Jr., Philadelphia. An excellent article and worthy of honorable mention.

No. 1846. Shoe Skirting, by W. B. Geyer, Philadelphia. A fair common article.

### *Morocco.*

No. 1819. Assorted Colored Morocco and Parchment, by J. H. Hummel, Philadelphia, deposited by J. J. Sowers. The Judges remark that they cannot speak too highly of this deposit; in point of colors and workmanship they are equal if not better than any imported stock that has ever come under their notice.

*A First Class Premium.*

No. 1879. Morocco, by Samuel Buck, consisting of dyed black, French brush kid, and brush grained, all of very superior quality.

*A First Class Premium.*

No. 303. Glazed Curracoa Kids, by G. S. Adler, Philada. Worthy of

*A Second Class Premium.*

No. 304. Bronze Kid, Joseph Nevil, Philadelphia. A fair article.

No. 362. Striped Sheep Binding, by J. H. Hummel, Philadelphia. Deserving of notice as having been gotten up in a creditable manner.

### *Patent Enamelled Leather.*

No. 7. A Large Invoice of Assorted Colors, Patent Enamelled Leather, by Halsey & Taylor, Newark, New Jersey, deposited by I. Barton & Co., Philadelphia. After a careful examination on the part of the Judges it is reported as being fully worthy

*A First Class Premium.*

### XXXI.—BOOTS AND SHOES.

No. 463. Ladies' Shoes and Gaiters, by J. W. McCurdy & Son, Philadelphia. Of good quality and superior workmanship, not made for the purpose of Exhibition, but regular Sales.

*A First Class Premium.*

No. 340. Water Proof Boots, by James J. Halsell, Philada. Very creditable.



No. 393. Wooden Soled Shoes, by M. & J. Robinson, Philadelphia, are very useful to stand in the water.

No. 614. Ladies' High Boots, by J. T. Warren, Philadelphia. Worthy of special notice for displaying good taste and skill, and very creditable workmanship.

No. 715. Coarse Brogans of Extra Size, as a Sign, by Farley, Morrison & Co., Mass. A well made durable article.

No. 1961. Boots and Shoes for Gentlemen's use, by Marshall & Mann, Philadelphia. Creditable work. The heavy brogans deserve particular notice on account of their useful and substantial qualities.

No. 86. Crimping Machine, by George Fetters, Holmesburgh, Penna. Believed to possess great advantage over the old method.

No. 157. Boot and Shoe Lasts and Trees, by Jacob Foster, Philada. Very creditable.

No. 291. Ladies' Shoe Lasts, by S. S. Redifer, Germantown. Very fair specimens.

No. 1777. Lasts for Stitching and Clamping Boot Trees, by George Munroe, Philadelphia. Highly creditable.

### XXXII.—FURS.

No. 320. Assorted Fancy Furs and Carriage Robe, by L. Fishblatt, Philadelphia. The ladies' Talma of Siberian squirrel is a superior piece of work, and some of the other pieces display very good workmanship. The carriage robe with eagle centre is good in design, well matched, and of excellent workmanship. For the carriage robe,

*A Recall First Class Premium.*

### XXXIII.—GENTLEMEN'S FURNISHING GOODS.

No. 481. Furnishing Goods by Oldenbergh & Taggart, Philadelphia. Their display of stock cravats are worthy of special notice as superior articles. Their shirts have a decided advantage in accuracy of cut, and certainty of fit in any number made. For the shirts

*A Second Class Premium.*

No. 221. Fancy Shirts, by Mrs. Shaeffer, Philadelphia. Workmanship and display very creditable.

No. 376. Patent Enamelled Shirt Collars, by E. H. Valentine & Co., New York, deposited by W. E. Lockwood, Philada. A desirable article for travelers. Worthy of special mention for their economy and utility.

No. 560. Furnishing Goods, by J. Burr Moore, Philadelphia. A creditable display, and worthy of notice for good style and handsome finish.

No. 613. Furnishing Goods, by Miss H. Souder, Philadelphia. Fine specimens of needlework and general good taste.

## XXXIV.—NEEDLEWORK.

No. 206. Embroideries, made and deposited by E. Grosjean, Philada. Very elegant, equal to any imported. *A First Class Premium.*

No. 536. Furnishing Goods for Ladies' and Children's use, by Miss M. L. Spooner, Philadelphia. For superior taste and workmanship, *A First Class Premium.*

No. 85. Crochet Work, by Miss A. B. Warrington, Camden, N. J. Very handsome. *A Third Class Premium.*

No. 91. Crochet Counterpane, by W. Knocke, Philadelphia. Beautiful work. *A Third Class Premium.*

No. 352. } Dressing Gowns, Shirt Bosoms, and Children's Linen, by  
No. 353. } Madame Segorri, Philadelphia. For the specimen of card  
No. 354. } machine sewing, *A Third Class Premium.*

No. 70. Stitched Quilt, by Mary McClain, Philada., (age 73 years). Worthy of particular notice.

No. 230. Zephyr Portrait, by Mrs. A. B. Linderman, Philadelphia. Deserving much credit.

No. 245. Needlework, by Miss Williams, Philadelphia. Very evenly finished.

No. 257. Leather Fruit, by Anna M. Melvin, Philadelphia. Well done.

No. 445. Quilt, by Harriet L. Savage, Philadelphia. Exhibits great patience, and is worthy of much merit.

No. 52. Piano Cover, by Miss E. Isaacs, Philadelphia.

No. 53. " Miss Ellen Myers, near Bristol, Bucks Co., Penna. Both the above piano covers very creditable to the makers.

## XXXV.—FANCY GOODS.

No. 319. Dressing Cases, Writing Desks, and other Fancy Articles, by W. T. Fry, Philadelphia. A very beautiful display, reflecting great credit upon the maker. *A Recall First Class Premium.*

No. 281. Hair Work, by Mrs. Reese, Philadelphia. Tasteful in arrangement, displaying much industry and great ingenuity. *A First Class Premium.*

No. 485. Model Cottage, by James A. Snyder, Philadelphia. A very beautiful piece of workmanship, correct in scale, and showing great artistic merit. *A First Class Premium.*

No. 100. Fancy Bonnets, by Madame M. Elsberg, Philadelphia. In good taste, *A Second Class Premium.*

No. 702. Bird Cage, by E. Mosemann, Philadelphia. Novel in arrangement and creditable. *A Third Class Premium.*

No. 682. Porte Monnaies, Pocket Books, and other fancy articles, by C. Rumpp & Co. Philadelphia. A display of good workmanship.

*A Third Class Premium.*

No. 80. Stuffed Birds, by John Krider, Jr., Philadelphia. Beautifully prepared.

*A Third Class Premium.*

No. 389. Miniature Locomotive and other Fancy Articles in Bead Work, by N. B. Kneass, Jr., 12 years of age and blind.

*A Third Class Premium.*

No. 82. Tin Ship "Flying Yankee," by H. B. Butcher. For novelty and ingenuity,

*A Third Class Premium.*

No. 155. Walking Canes, by George Doll, Philadelphia. A great variety and in good taste.

*A Third Class Premium.*

No. 3. Ornamental Glass Panel and Table, by G. Walters, Philada. Beautiful design and good workmanship.

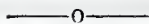
*A Third Class Premium.*

No. 14. Ostrich Feather Brushes, by L. G. Hanson & Co., Philadelphia. A beautiful display skilfully arranged.

*A Third Class Premium.*

No. 360. Fancy Silk Bonnets, by Thomas White & Co., Philadelphia. A creditable and tasty display.

# OMISSIONS



## I.—MODELS AND MACHINERY.

No. 2101. 10 American Lap-Welded Flues, by Seyfert, McManus & Co., Reading, Pennsylvania. Some of these flues are of extraordinary size, the largest being 22 feet long,  $7\frac{1}{2}$  inches in diameter, and are worthy of especial notice. The iron flanches well, and seems to be of first quality. For improvement in manufacture, *A Recall First Class Premium.*

No. 2012. 1 20-inch Lathe, by William Sellers & Co., Philadelphia. A complete machine; workmanship excellent.

*A Second Class Premium.*

No. 2042. 2 Weissenborn's Patent Boiler Incrustation Preventer, by E. W. Sargent, New York, deposited by S. F. Conover, New York.—An apparatus designed to separate the mineral ingredients from the feed-water of steam boilers. This apparatus demands a more thorough investigation than can be given by the Committee at this time; they therefore recommend that it be submitted to the Committee on Science and the Arts.

No. 1678. Lot of Fire Brick and Tile, by Mueller & Neukamet, Philadelphia. A good article; highly recommended by those who have used them.

No. 2063. Plate Press, by George C. Howard, Philadelphia. Of excellent workmanship.

No. 2092. Thompson's Patent Oiler, by — Thompson, New York. The best in use.

No. 2097. Pressure Water Wheel, by Gerhard & Fields, Wilmington Delaware; useful in some situations.



CHARACTER OF FRANKLIN.

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ADDRESS

DELIVERED BEFORE

The Franklin Institute,

ON THE

EVENING OF THE FOURTH OF DECEMBER, 1856.

BY

HENRY D. GILPIN.

## CORRESPONDENCE.

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FRANKLIN INSTITUTE OF THE STATE OF PENNSYLVANIA.

*Philadelphia, November 19, 1856.*

TO HENRY D. GILPIN.

DEAR SIR:—I am instructed, by the unanimous request of the Committee on Exhibitions, to invite you to deliver the Address at the close of the present Exhibition, before the Officers and Members of the Institute, and the Depositors at the Exhibition.

Your favorable assent is respectfully and earnestly solicited, and will be a source of great satisfaction.

Very faithfully yours,

JOHN E. ADDICKS,

*Chairman.*

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*Philadelphia, November 19, 1856.*

TO JOHN E. ADDICKS, *Chairman.*

DEAR SIR:—It gives me great pleasure to comply with your invitation on behalf of the Franklin Institute. Nothing can afford me greater gratification than to assist, by any means in my power, the excellent objects of an Association which has contributed so much to the intelligent promotion of useful art.

Very faithfully yours,

HENRY D. GILPIN.

## ADDRESS.

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WE meet together this evening to witness the close of another Exhibition of the productions of mechanic art. In the midst of a wide and prosperous city, whose inhabitants number more than half a million ; in a noble hall, adorned by artistic skill ; this large assemblage unites in the annual ceremony, by which Philadelphia commemorates the establishment of an Institution whose object is to develop, to improve, and to reward the progressive excellence of practical genius and skill ; an Institution which, founded on voluntary association, sustained by united and voluntary patronage and exertion, was the first, either on this continent or the old, to combine, for the benefit of those who should devote their industry to the occupations of mechanic art, the means of instruction ; the opportunities for study ; aid from all the branches of advancing science ; the exhibition of new discovery and improving skill ; the diffusion of progressive knowledge ; and the original investigation of subjects of practical usefulness, by means of actual experiment and research.

There had indeed been occasional and partial instances, where governments had extended to practical science and mechanic art, something of the patronage they profusely lavished on that which ministered to ornament, luxury, or power. In some countries, schools for such instruction had been organized ; in others, cabinets, museums, libraries, and collections of useful models and machines had been formed ; associations of men of science, usually students or experimentalists, who mutually communicated and disseminated their discoveries and researches, were not unknown ; but I am not aware of the existence of an institution, before the Franklin Institute was founded in Philadelphia, which had the combined aim and result to make the mechanic and the practical operative an agent in the increase of such knowledge ; to bring together, in common and voluntary co-operation, for the purpose of improvement, those who can impart and those who desire to receive it—the young who are seeking it, the mature who have acquired it by experience and thought ; to spread the information to be gained from books and cabinets, so generally and easily, that it shall reach without trouble, and almost without cost, the humblest work-shop ; to give instruction on the various branches of practical industry and the sciences connected with them, in a form so popular, and with arrangements so convenient, that they shall not interfere with, but rather aid, the daily pursuits of actual and busy labor ; to diffuse, at

short intervals and in a cheap and convenient form, by means of a well conducted periodical work, every fact and suggestion in regard to every branch of practical industry, which thought, intelligence, and invention shall from time to time disclose, in any part of the world; to collect year after year, in well arranged public exhibitions, the results of mechanic labor, so that they shall contribute at once to make known the skill and genius of the artificer, to offer to artisans the opportunity of comparing useful inventions in their respective trades, and to display to all our citizens, works and objects of utility in various forms, which might otherwise remain partially or totally unknown; to reward by public reports, certificates, and premiums, the successful efforts that may be made, so as at once to confer on industry and skill a just and honorable distinction, and to give to the community the impartial assurance of the reality of merit; finally, to submit to the test of skilful, competent, unprejudiced investigation, inventions and discoveries, which, without this, may, even when beneficial, fail to obtain the confidence and patronage assured to them by such a proof, and, if visionary or deceptive, may be prevented from causing disappointment, or inflicting injury, or gaining a reputation which is undeserved.

The day has gone by when it is necessary to assert, much less to vindicate, the utility of objects such as these. None doubt the advantage, nay, the necessity of kindred science, to the prosperous exercise of every mechanic art. No builder is now ignorant that the strength of his edifice is assured by his accurate knowledge of the laws which regulate the strength of iron or of timber, or the properties of the arch, as well as that its beauty and proportions are dependent on the observance of rules as precise as those which make the dome of Saint Peter's or the porticos of the Parthenon the admiration of the world. It is chemistry, scientific chemistry, which now gives easy and cheap fertility to the farmer's abandoned field, and discloses to the painter the hidden mystery of colors as bright and unfading as those of Titian. Every man who now holds in his hand the implements of his trade, or practises the daily and usual operations of his craft, knows that it is capable of improvement by his own application to it of scientific knowledge. He knows that it is science, not chance, which is every day bringing to light discoveries and inventions that facilitate the labors and enlarge the comforts and power of man.

It was not chance, but the application of ascertained principles of science to the object sought for, that gave us the steam engine of Watt, the steamboat of Fulton, the loom of Cartwright, the gin of Whitney, the photograph of Daguerre, the telegraph of Morse, the clipper of Stearns, the reaper of McCormick. It was not by chance, but through long years of patient labor, that Guttenburg perfected the most influential of the arts invented by the genius and industry of man. Through what thoughtful and laborious nights and days, did Newton apply all the resources of science, to assure himself of the laws, now apparently so simple, that regulate the movements of millions of worlds. Is it chance that has enabled Maury to point out paths over the trackless and stormy ocean, shorter and safer than those traversed for centuries by sea-trained mariners, when unguided by the light of science that he has now cast upon them?



Was it not purely the application of science that enabled Leverrier to direct the distant telescope of Galle to the point where, in the midst of thousands of twinkling stars, he should detect an undiscovered planet rolling in its unmeasured orbit; and is it not to him, as to Columbus, even less glory to have found than to have sought for an unknown world, led as they were to the search by predictions of which they had assured themselves by experiment and science? No! The spirit of useful discovery rises not at the call of fancy; she answers only the invocations of labor and research. In every branch of human industry, from the humblest to the highest, the application of science is the sole guaranty of improvement or even of success. To foster such an application, by means of wise and well adapted public institutions, has come to be the demand and the duty of our age.

If, then, it is an honor justly due to Philadelphia, that she has successfully led the way in an object of such wise beneficence, by the comprehensive plan she framed and has developed; if we see around us every useful art, pursued by mechanics trained in her schools, with an excellence that can scarcely be surpassed, by her Baldwin, her Merrick, her Cornelius, and many a name that has become a warrant for united science, intelligence, and taste, in works of utility and elegance; if this is her just pride, now in these days of her matured prosperity, may I not, on this occasion—can there be one more appropriate—claim for her an honor still more deserving of commemoration; may I not recall the fact that, in all she is now doing, she is but fulfilling a promise that she gave in the very outset of her social career, that she is but carrying into complete and successful effect, designs that she formed, and efforts that she made a century ago?

In days when Philadelphia was yet young and feeble, she already sought, by exertions almost beyond her means, to foster mechanic industry; to encourage and honor those who should devote to it their aid and skill; to instruct its commencement, and to enlighten its further progress; to make more acceptable useful discoveries and information; to supply by voluntary and well regulated co-operation of individuals, that beneficial influence and power which the government at home and abroad was unable or unwilling to bestow. It is her just and honest pride that, at a period so early, the liberality and wisdom of her citizens laid the foundations of this popular advancement and diffusion of useful knowledge; and let us never forget that in this she was largely guided by the counsels and example of the most illustrious of her sons. May I not then justly and appropriately ask you, as the best commemoration of this anniversary, to unite with me in exploring the manner in which those early foundations were laid; in recalling the lessons that have been left to us in the life and conduct of Franklin; in examining with what fidelity we have followed the spirit of his counsels, and are entitled to the profit and glory of his honored name. Such an examination will enable us to know whether our part has been well performed; whether, as new opportunities have arisen, we have dutifully enlarged the edifice which he founded; and we shall also be able best to estimate our own advancement, as years

have rolled on, and demands and facilities have alike increased, by ascertaining the development and improvement we may have assisted to make, in the plans of useful benevolence that he formed.

When this now busy and wide extended site of bustling and active commerce, was but a scene of rural beauty; when scarcely ten thousand persons spreading along the shores of the Delaware, formed its entire population, in the month of October, 1723, exactly a century before the Franklin Institute was founded, the printer's boy, by whose name it is at once honored and described, adopted Philadelphia as his home—the home of his choice and love—his happy home as he proudly called it in his early, industrious, self-relying boyhood; his “dear Philadelphia,” as he continued to name it, in the last years of his lengthened life, and in the private record of his daily thoughts and actions. He chose it for that career of honest practical labor on which he determined, with wisdom beyond his years, to found, at the outset, the basis of his fortunes; and when industry, and integrity, and length of days, and action after action of generous and considerate benevolence, private and public, to his country and his fellow men, had united to bestow upon him competence and honor; and when his bones were laid in our midst, in the humble sepulchre, he had himself directed, with no gaudy funereal honors, but with thickly coming testimonies of admiration, not from his own land alone, but from every quarter of the civilized world; he had left us, what was better even than the multiplied benevolence of his actions, the proof, made unanswerable by his own example, that practical, intelligent, persevering industry, actuated by generous impulses, and governed by a sense of constant duty, can achieve for itself the individual competence and independence which are the just aim of all; and, with these, can unite a fame the most brilliant, and stations the most exalted, to which true ambition can aspire.

Perhaps in the varied and eventful story of human life, no instance can be found of success so brilliant from an outset so cheerless. Born in a humble station, Franklin resolutely threw himself upon the wide world, with absolutely nothing to depend upon but the mechanic trade he had but begun to learn, and the resources of his own intelligence and exertion. When he wandered unknown along these streets, he was a youth, with only the smallest pittance in his pocket; without a companion to cheer him—without a relative, a friend, even an acquaintance to assist or even counsel him. Yet he seems never to have had a misgiving of the future; never to have hesitated about his course. Though his intellect, his temper, and his personal qualities might have seemed naturally to sway him towards some more attractive and less toilsome occupation, he adhered from the first, to the steady exercise of his trade. Neither his cheerful social nature, nor his many temptations to a desultory life, could lead the youthful wanderer—though unchecked by a father's counsel, unwatched by a mother's care—from the steady practice of his trade. In this, his quick industry early gave him more than common skill; when in want of types, he could contrive himself to cast them; upon occasion he would himself engrave; he made his own printers' ink; he was, as he tells us, his own warehouseman, and brought to his print-

ing-office, in his wheelbarrow, the paper he purchased at the stores; "in short," as he says in the narrative of his youthful struggles, "I was quite a *fac-totum*." Employment soon flowed in upon him; at the age of thirty, his industry had already made him easy in his circumstances; and when, at the age of forty-seven, he received from England a commission to be postmaster-general of the colonies, he had amassed by his business as a printer no inconsiderable fortune. When increasing years and successive public employments obliged him to withdraw from active participation in his trade, he yet retained his interest in it; he watched with unceasing care the progress and welfare of his grandson, who was trained to it in accordance with his wishes; he assembled the printers of Philadelphia around his bed, that they might receive his last advice in regulations that were proposed for its benefit; and among the bequests which he made at the close of life were those of his types, his letter foundry, and his printing-office.

But were there no relaxations in this labor—no hours of indulgence for this energetic spirit, this toiling arm? Was the printer, man and boy, so absorbed in the acquisition and progress of his worldly fortunes, that the story of his life has left us no lesson of attendant enjoyment for himself; has pointed out to us no paths of accompanying usefulness to others? Are there no kindred employments for the intellect and the heart, which may go hand in hand with the busiest labors of a mechanic trade? Is there no philosophy to teach us, but that which is nurtured in the closet; no benevolence, but that which turns to daily and conspicuous wants; no patriotism, but in startling actions of the cabinet or the field? Is there not a self-enjoyment, a philosophy, a benevolence, a patriotism that may wait upon all the occupations of the busiest life, bringing to it happiness that comes unsought for, and gratitude and blessings at which it never aimed? What answer do we need but the life and actions of Franklin.

Without seeking to depreciate the superiority of qualities he possessed by nature, it may yet be confidently said, that of all men who have performed a part so conspicuous on the theatre of life, he reached it by that cultivation of his faculties, that care and forethought of conduct, that wise reflection, that hopeful and trusting spirit, which are within the reach of every human being. If indolence and indifference were foreign to his nature, he yet checked every impulse of unregulated enthusiasm; if his imagination was lively, reason and reflection were ever at hand to control its flights; if he refused a blind deference to authority, he yet respected and weighed opinions adverse to his own; in the controversies of science and of business, he was tolerant towards all opposition; and through the mass of his private correspondence, which accident has disclosed, I do not remember an expression bitter or ungenerous towards those who differed from him in political sentiment or action. If he ever lost the habitual control of his temper or language, in a word that he has written, it is in expressions of angry indignation excited by injuries inflicted on his country.

Yet there was no insensibility in his feelings, or selfishness in his disposition; his impulses were warm and generous; his sympathy was sincere, lively, and comprehensive; he was the ready friend of those who wanted friends—the young, the humble, the unfortunate; a genial humor



and playful wit, and gentle and tender affections brightened the intercourse of his domestic home; his benignity, which had made him a welcome companion in youth and lowliness, gave him, in more conspicuous scenes, a gracious ease that the world admired, but did not envy; and what can surpass the serene dignity of his prolonged old age, which, undisturbed alike by querulousness or levity, was equally preserved amid the splendor and flattery of courts, on the couch of pain, and in the consciousness of approaching death?

Though few men have been more steadily actuated by ambition, though few have more coveted and enjoyed honorable distinction and respect; yet he sought them by the exercise of his talents, by incessant industry, by patient frugality, by tenacity of resolution, by an integrity never sullied, and a social intercourse that brought to him ready confidence and aid; above all, by the unwearied pursuit, for himself and for those around him, of whatever was useful and true. Though never wanting boldness, either in speculation or action, the instincts of his nature were utility and truth; he was cautious even while enterprising; he made the suggestions of imagination subservient to the judgments of his understanding. In his boyhood, he abridged his meals and saved something from his slender wages to gain the time and the means to acquire, by study, variety and accuracy of knowledge. Through life, his busiest occupations could withhold him from no inquiry that seemed to promise a useful result. He held it to be not less a duty than a pleasure for every one, in his own sphere of industry, to contribute something by science or research to the sum of existing knowledge, and his own example is the proof with what ease and benefit that duty may be done. He would not seek, he even declined, patents for his profitable inventions, having, as he said, derived advantages from those of others, and being glad of an opportunity in return, to serve them by means of his own. His philosophy, like the apparatus he preferred to use, was simple, almost homely. No vain love of originality led him into untried speculations. He disclaimed conclusions until they were verified by experiment; when, in familiar correspondence, he suggested a theory, probable and reasonable in itself, but not founded on actual observation, he apologized for his "reveries" as he called them, and for "wandering a little in the wilds of fancy." Yet over what fields of useful science did the busy printer range; what advancing steps of progress did he add to truths already known; what foundations did he lay for many that have been since explored!

Although the wonderful theory, verified by his kite, his finger, and his key, which assured us of the existence of a subtle element through all nature, as pervading and as eagent as gravitation itself, and from the development of which have arisen the most astonishing influences upon the social relations, intercourse and commerce of our age; although his suggestions, experiments, and discoveries in electricity, are the scientific labors by which his fame has been most extended, they yet form but a limited portion of the inquiries of his active mind. Watching external nature with a constant and curious eye, his observations and experiments have laid the basis of the soundest theories in meteorology. Laws unknown before his suggestions, and explained by him with the happiest



clearness and simplicity, are now recognised as governing the wild movements of the winds, the tempests, and the tides. Improvements in navigation; examinations throwing light upon the internal structure of the earth; were some among the many objects of his research. To him we owe the earliest accurate investigation, the first just theory of the great ocean current which sweeps from the gulf of Mexico, whose phenomena are unsurpassed in importance in the hydrography of the globe. Quick as was his mental eye to penetrate far into the future, little could he foresee that one of his own descendants was to perish in that stormy current, in the midst of investigation towards which he had led the way, pursued with the dauntless chivalry of science.

To researches such as these, his native instinct of benevolent utility added inventions and suggestions, more familiar indeed, but even more conducive to the immediate relief, comfort, and protection of those around him. His fire-place, his remedies for smoking chimneys, and his musical glasses; his school for swimming; his establishment of fire companies, of a new city watch, and of a system of cleansing and lighting the streets of Philadelphia; his promptly formed scheme for its defence, when threatened with invasion and without troops, by voluntary associations of the citizens; his artillery club, joined, as he says, by eight hundred, chiefly tradesmen, on the day he proposed it, "and more signing hourly who are to go weekly to the battery, and exercise the great guns;" his plan for the protection and instruction of indigent emigrants arriving from Europe; his effort to introduce the culture of silk, the olive, and the vine—these were but a few of the useful measures by which he was incessantly ministering to daily and conspicuous wants.

Indeed, in his pursuits and in his writings, the philosophy of Franklin was but another name for philanthropy, seeking objects for its exercise in needs and habits constantly occurring, that too often escape attention, though they affect most seriously the actions and happiness of men. The inimitable and amiable simplicity of his style, and its impressive perspicuity were so blended with a shrewd perception of those traits of character and conduct which largely affect the life of every day, as to be constantly conveying lessons of morality that were the more certain in their influence, because they were made attractive but not obtrusive. Through his proverbs, his essays, his apothegms, his parodies, and his almanac, the soundest lessons of industry, sobriety, economy, toleration, and piety stole noiselessly into the heart. No timid distrust turned away from a teacher who approached with a familiarity so gentle and affectionate. No jealous sensibility or wounded pride repulsed truths which were supported by reason and candor, and made alluring by benevolence and fancy. If to those, whose views of philosophy and ethics are more abstract and speculative, his lessons seem to be homely, and his appeals to be directed to our interests rather than to our moral and intellectual perceptions, is it not a sufficient answer that, while they are addressed to some extent to the business as well as to the bosoms of men, they still carefully embody the precepts of goodness, disinterestedness, benevolence, sincerity and religious truth? His moral teaching was not less generous, expansive or profound, because it was illustrated and strength-

ened by an appeal also to those motives of individual benefit which have been planted in the constitution of man, not as antagonists, but as aids of virtue. It is the selected praise of the greatest of uninspired teachers, that his philosophy was that which entered into the households of men, and mixed itself with their every-day manners and affairs, and pointed out the causes which may promote good and ill fortune in ordinary life.

But although the objects of Franklin's personal labor were thus varied, incessant and multiplied; although he thus performed, with such ready generosity and singular felicity, more than a common share in disclosing the advantages and opening the avenues of useful knowledge and instructive truth; he yet keenly felt that much was still left undone, which no individual exertion could adequately supply. If the course of his successful life, and steady adherence to his chosen pursuit, had illustrated the advantages to himself, the usefulness to others, of the mechanic arts, it had equally shown that opportunity of study and the diffusion of new discoveries and progressive science were essential to their improvement and full success; and that these it was scarcely possible to attain except by mutual and voluntary co-operation. The avowed policy of the British Government towards its colonies, had taught them that advancement in the mechanic arts must depend upon themselves. Even where unjust restrictive laws did not actually interfere, yet no royal patronage or parliamentary grants created libraries for them, or endowed societies, or founded schools of instruction, or promoted the diffusion of science. Small as the colonists of America were in numbers, poor in resources, distant from facilities needed for such institutions, they could yet be brought into existence only by their own exertions. These were not long wanting in Philadelphia, under the guidance and influence of Franklin.

In 1731, when he was only at the age of twenty-five, at his instance, to use his own characteristic words, "fifty Philadelphia youths, chiefly artificers, cheerfully instituted the Philadelphia Library." Its object was to secure for themselves and others similarly situated, the best diffusion of the useful literature and instruction that were needed. The necessary funds were supplied by an annual contribution; the contributors annually chose the persons by whom their books were to be selected, and they were allowed to take them from the library for perusal and study at home. The plan was entirely original, and one can scarcely be imagined that could more judiciously have supplied the wants of "the youthful artificers of Philadelphia," at that early day. Franklin chose for it as a characteristic motto—for the young printer was already a tolerable master of Latin—"Communiter bona profundere Deorum est."

In a few years—on the fourteenth of May, 1743—the Library was succeeded by "A proposal for promoting useful knowledge among the British Plantations in America." It was a plan to institute a correspondence among ingenious men, "to be addressed to Benjamin Franklin at Philadelphia, who would act as the secretary, until one more capable should be provided." They were mutually to communicate "such experiments, discoveries, and improvements, as might be thought of public

advantage." From these, selections were to be annually made, published, and circulated. Various subjects were enumerated which should engage their labors, and among them were particularly mentioned "new and useful improvements in any branch of mathematics; new discoveries in chemistry, such as improvements in distillation, brewing, and assaying of ores; new mechanical inventions for saving labor, as mills and carriages, and for raising and conveying water, and draining meadows; all new arts, trades, and manufactures that may be proposed or thought of; all philosophical experiments that let light into the nature of things, tend to increase the power of mind over matter, and multiply the conveniences or pleasures of life." It proved to be impossible at that early day to carry out this excellent plan with all the success that had been hoped for. The scattered population of the colonies, and the expense which was necessarily involved in its full execution, raised difficulties that could not be overcome; but the American Philosophical Society ultimately arose from it, and achieved, as it still continues to do, no inconsiderable portion of the objects at which Franklin had aimed. Two years afterwards he made another effort to supply the place of the annual publication, which he had thus proposed to circulate, for the diffusion of useful science. He offered himself to print and publish a monthly or quarterly journal devoted to matters of invention, and generally to subjects of philosophy. From the same causes this was attended with the same ill success; the expense was beyond his individual means; and he had no alternative left for the accomplishment of his design, but to communicate plans and suggestions of practical utility on scientific discovery through the medium of his newspaper, and by means of occasional pamphlets of his own.

In the year 1749, a third step was taken by Franklin: the establishment of a system of education more extended and useful than any that had previously existed in Philadelphia. There was, at that time, no school of mechanics, scarcely one for the rudiments of mathematics. He proposed, in addition to the general branches of education, especially to provide mathematical instruments; an apparatus for experiments in natural philosophy; prints of all kinds of buildings and machines; instruction in mechanics; and lectures in mechanical philosophy, so that the student, as he says, "might be informed of the principles of that art by which weak men perform such wonders, labor is saved, and manufactures are expedited." I cannot omit to mention the clause which immediately follows this description of scientific studies, as it is peculiarly characteristic of the constant presence of Franklin's benevolence of nature. "With the whole," he adds, "should be constantly inculcated and cultivated that benignity of mind which shows itself in searching for, and seizing every opportunity to oblige." This plan was successful. It received liberal aid from the citizens. It laid the foundation of the Academy, the College, and eventually of the existing University. Men, eminently distinguished, have presided in the schools it formed; and science has been taught by a succession of professors, among whom may be mentioned the distinguished names of Rittenhouse, of Patterson, and of Bache.



Thus had Philadelphia, more than a century ago, under the wise counsels and guidance of Franklin, established the principles most to be aimed at in public institutions, connected with mechanic art ; voluntary co-operation ; the collection of libraries and cabinets ; the extension of their use equally to the artisan and the student ; plans and models of inventions ; instruction in attendant sciences ; and cheap publications, at short intervals, which should disseminate discoveries and communicate useful knowledge. All this she had endeavored to introduce. If complete success did not, at once, attend every detail of so admirable a plan, this was only from the inadequacy of means, which was inseparable from the times ; it was but postponed to a day of more enlarged resource. But it made Philadelphia, even then, the first seat of science, of mechanic art, of useful literature, in the new world. Upon us, her sons, it has imposed the duty, from which we cannot shrink, of still leading in the march of practical utility—of being foremost to unite the application of science with ingenuity and taste, in the cultivation of those arts “ which tend to increase the power of mind over matter, and multiply the conveniences and pleasures of life.”

The life of Franklin had now rolled on, in Philadelphia, for more than thirty years. Peace and prosperity blessed the community which he loved. The success of his own exertions in so many works of generous utility, public and private, was the cheering reward of his unwearied efforts. The equanimity and perseverance which had brought prosperity and happiness to himself, made his useful benevolence more and more acceptable to those around him. The years of industry, which had diminished his own personal necessities and cares, had increased the force and dignity of his character, and gave weight to all his suggestions. His name came to be foremost in every good design ; it was hailed as the surest promise of success. “ Our ingenious printer,” said the intelligent Logan, “ has the clearest understanding, and is certainly an extraordinary man ; one of a singular good judgment, but of equal modesty.” Secretary Peters wrote to the Proprietaries in England, when some new and benevolent enterprise was projected, “ Mr. Franklin is the soul of the whole.”

That a spirit invariably actuated by impulses such as these, from early boyhood, and through all the engrossing necessities of a self-dependent life, would be foremost when needed by the public exigencies of his country, who could doubt ? Who could doubt that the career of the statesman would be marked, when times and circumstances should demand it, by every quality of firmness, of temperance, of skill, of wisdom, of justice, of benevolence, so conspicuous in that of the mechanic and the philosopher ; that in every public trust affecting most seriously the welfare of his country, he would be first appealed to, his aid and counsel would be first sought ; that influences which had proved to be so useful and benign in a narrower and peaceful sphere, would be exerted in emergencies more arduous, with commensurate results. And so it was. Through the long, stormy and eventful period which followed, he was the first to be relied upon, alike in the incipient movement to unite the colonies in a common union ; in the protection of their interests in England ; in the



vindication, there and in America, of their threatened and outraged rights; in their protracted struggles for independence; in securing for them aid and alliance abroad; in forming and maturing their government at home.

As early as 1754, when England sought to enlist the colonies in a combined plan of military defence, and, with that view, invited an assemblage of commissioners to meet at Albany, the quick forethought of Franklin, who was selected as a representative of Pennsylvania, penetrated beyond the mere exigencies of the occasion. He had already perceived, as he believed, more than one indication of a future policy to oppress the colonies by legislation in England, not directed to promote their benefit, but what was supposed to be that of the mother country. He saw in the present scheme an opportunity, which he instinctively seized, to suggest to his countrymen the plan of a comprehensive political union among themselves, founded on popular representation, and securing the powers of independent legislation. Sixty years before, Penn, looking in his liberal policy beyond the limits of his own province, had aimed at the same object, but the suggestion was in advance of his age, and had met with no response. If Franklin, the son of Pennsylvania next most distinguished, did not fully succeed in this, the second effort, resisted as it promptly was by the ministers of England, and not perhaps acceptable to some of the colonies themselves, who could not view without distrust any surrender of their individual rights, he yet planted the seed of a federal union in the hearts of the people, and it waited but for time and circumstances to produce its fruit. The plan he had thus proposed, and the services he rendered on the occasion, gave him a new and loftier position; he came henceforth to be regarded, not as a representative of Pennsylvania alone, but of the people of all the colonies; on his journey homeward, the evidences of this feeling were enthusiastically displayed, and leading citizens flocked around him with warm expressions of grateful respect.

But few years elapsed before the language and conduct of the mother country actually disclosed her purpose of arbitrary oppression. Yet America did not at first believe that this was a settled policy, or that the government would be deaf to an appeal which should be enforced by reason and unaccompanied by passion. This appeal Pennsylvania promptly determined to make. Her legislature selected and deputed Franklin as her agent, to check, if possible, at the outset, by his personal influence and remonstrance, the proceedings that appeared to be contemplated. He was sent to England as the agent of the colony, bearing with him resolutions of the Assembly which remonstrated against the threatened measures as cruel and unjust. Massachusetts, New Jersey, and Georgia, delegated to him the same arduous trust.

With what temper, zeal, and talent, he discharged it, through ten trying and irksome years, forms a chapter, unsurpassed in interest, in his country's annals. What scene more impressive does history portray—what picture more striking is there in the page of Livy—than when he stood, in simple dignity, before the parliament of England, meeting every question; explaining every circumstance; seeking to dispel, by the light

of truth and good sense, the fatal illusion that prevailed around ; and is there an incident in modern history more deeply engraved on the memory, than the unmoved consciousness of duty with which he bore the ungenerous taunts of the gathered nobles of England, at the council board of her infatuated sovereign ? With what calm disdain did he receive and despise the scarcely disguised appeals that were made to his interest or ambition ; with what unmoved resolution and subdued temper did he treat every effort to coerce him by injuries and threats ? "I do not think," said Howe, "of influencing you by any selfish motive, but certainly you may with reason expect any reward in the power of government to bestow." "The revengeful temper, attributed by poetic fiction to the bloody African, is not surpassed by the coolness and apathy of the wily American," was the language of Wedderburn, cheered and applauded by peers of England, assembled to listen to the preconcerted denunciation. Yet, let it be said, the mad injustice was not cheered and applauded by all. Her wisest statesmen knew that, if the crisis could be stayed, it must be done by listening to the warnings of Franklin ; and friend after friend, embracing names the most illustrious, could not be detained from flocking around the patient, sagacious, just and well informed representative of the oppressed and struggling colonies. Chatham above all, the greatest of her patriot sons, anxiously sought and profited by his counsels ; and, as if to give by his actions a proof of his confidence the most solemn, he sought to illustrate it by the personal exhibition of his admiration and respect, in the public and brilliant theatre of his own memorable triumphs.

During the last days of Franklin's residence in England, when his close departure was at hand, when all hope of reconciliation seemed to be fading away, Chatham, though feeble from age, and secluded by illness in his country retreat, resolved to attend the assembled parliament, and make one last attempt "to prevent," as he said, "a civil war before it was inevitably fixed." He announced to Franklin his intention. He requested him to be present in the House of Lords. His son-in-law, the Earl of Stanhope, conducted him there. Those most conspicuous in England's history were assembled. The ante-chambers and the galleries were filled with eager listeners. Dreading the power of "the old man eloquent," the unbending ministers had rallied all their forces. All the statesmen in whose hearts still lingered a faint hope that the reckless policy might yet be changed, crowded into the tapestried hall. After discussing, with even more than his usual eloquence and power, the history of the wrongs done to the colonies, and the headstrong pertinacity with which every plan of reconciliation had been rejected, he adverted to the injuries that had been wantonly heaped on the agent they had chosen to present their wrongs, and to suggest measures of forbearance, justice, and peace. Turning his eyes to Franklin, and attracting to him the notice of the vast assemblage, he paid him the memorable tribute of his confidence and respect. "If," said he, "I were the first minister of this country, and had the care of settling this momentous business, I should not be ashamed of publicly calling to my assistance, a person so perfectly acquainted with the whole of American affairs, and so injuri-

ously reflected on ; one whom all Europe holds in high estimation for his knowledge and wisdom, and ranks with our Boyles and Newtons ; who is an honor not to the English nation only, but to human nature." These were the parting words which cheered him when he closed his fruitless mission. Yet it had not been altogether fruitless, for it had become apparent, even before the fatal gauntlet was actually thrown down, that the general judgment of the civilized world had already pronounced itself in favor of the weak and distant colonies, who were entering into a struggle so fearful with an adversary so powerful ; and surely it is not too much to say, that this sentiment was due, in a more than common degree, to the conduct and language of Franklin, throughout the period of his agency in England.

Was it surprising, then, that when he returned to America, he should be placed, with a confidence that absence had not impaired, in the front rank of those who were to lead the country through the impending contest ? He reached Philadelphia on the fifth of March, 1775. On the following day he was unanimously added to the delegates already appointed to represent Pennsylvania in the Continental Congress which was about to meet. A few weeks afterwards, the Legislative Assembly of the province constituted a Council of Safety, charged with the executive measures which were now to be adopted, since war had become inevitable. Over this council he was appointed to preside with the same unanimity. At the election which soon after occurred for members of the legislative Assembly, he was chosen to represent Philadelphia. He was now in his seventieth year, yet his activity of mind and body was undiminished. "My time was never more fully employed," he writes to Dr. Priestley in England, early in July. "In the morning, by six, I am at the committee of Safety, which holds till near nine, when I am at the Congress, which sits till four in the afternoon. Enough has happened, one would think, to convince your ministers that Americans will fight. England, I conclude, has lost her colonies forever. She is now giving us such miserable specimens of her government, that we shall ever detest and avoid it as a complication of robbery, murder, famine, fire and pestilence." The temper which personal outrage did not rouse, could not be repressed under the long brooding public wrongs that were now breaking upon his country. Two weeks afterwards he introduced a measure into congress which was in fact a declaration of independence ; he presented a plan for a confederated government, independent of England, with a declaration that it should be perpetual, unless all that the colonies had claimed from her was conceded to them. He repaired, at the head of a committee of Congress, to the camp at Boston, to mature with Washington, an efficient system for the organization and support of a continental army. He did not shrink from the fatigues and exposure of a journey to Canada, at an inclement season, attended though it was with serious injury to his health. He personally supervised the construction of works of military defence on the Delaware. He undertook and effected the re-organization of the post-office establishment, which had been broken up by the disorders of the times. Well might John Adams record, as he has done, in his diary, "his capacity for business, and his



memory and resolution are amazing." What services he rendered, even more valuable than these active labors, in the deliberations of Congress during the succeeding years; how he reconciled conflicting interests; how he promoted the just and irrevocable step of independence; how he contributed to form a permanent confederacy, are a few among the characteristic and well known measures of his short and admirable service there.

But far advanced as he now was in years, and various and illustrious as his career had been, there yet remained for him a part to be performed perhaps more brilliant, though it could not be more useful, than all the past. If the sympathies of the European nations were indeed with the young republic, they yet doubted its ability successfully to contend with so powerful a foe. The memory of her triumphs by land and sea, but a few years before, and of her conquests on the continent of America itself, warned them of the dangers to be encountered, and made them reluctant to plunge themselves into the conflict. Congress, however, believed that they would not look on with apathy; that they would be willing to receive them into the family of independent nations, to cultivate relations of harmony, and to enter at least into treaties of commerce; above all, they believed that France, the ancient rival of England, and smarting from late reverses, would not suffer them to sink from want of efficient and timely aid. They selected, therefore, Franklin and Jefferson to repair as commissioners at once to France, uniting with them Deane, who was already there, having been engaged in procuring munitions of war. Franklin, regardless of the season or his years, did not hesitate to accept and immediately to enter on his mission, and after a stormy voyage reached France in December, 1776. Jefferson being unable to do so, Lee, who was then in Europe, was substituted for him, and went soon afterwards to Paris.

The personal fame and character of Franklin, not less than sympathy with America, prepared for the aged representative of the young republic a reception enthusiastic beyond example or expectation. It was not the ambassador alone who was welcomed, but the statesman, who, in England and his own country, had displayed, under circumstances the most difficult, such integrity, patriotism, patience, sagacity and skill; the moralist, whose lessons had been transferred from newspapers and almanacs into various languages of continental Europe; the philosopher, who had been placed by the unbought suffrages of men of science in their own most distinguished ranks, and whom the king of France had himself selected, but a few years before, to fill one of the few chairs appropriated to foreigners in her Academy of Science. "The virtues and renown of Franklin," to use the language of a French historian, "negotiated for him." Supplies of money and of military stores were at first permitted, and afterwards openly and generously furnished; large draughts drawn on him by congress, without adequate provision being made to meet them, were redeemed by the government of France, "mainly owing," as her prime minister declared, "to her appreciation of the patriotism and wisdom of his conduct;" military officers of distinction, whom he recommended, were not restrained from repairing to America; a treaty of amity



and commerce, first acceded to, was ultimately joined with one of military alliance and aid ; fleets and armies soon openly followed ; when the cheering news of such a result reached the camp of Valley Forge, it filled the hearts of Washington and his suffering soldiers with brighter hopes, if not with more devoted courage ; and Morris but spoke out the feelings of all America when he exclaimed, “ our independence is now secured ; our country must be free.”

At home, step by step, through the three years that followed, success attended the military struggle, till at length, beneath the ramparts of Yorktown, the last soldiers of the mother country acknowledged the final triumph of her sons. Abroad, the same years were occupied by wise negotiations with a view permanently to secure, when peace should come, the advantages that had been won by arms. Of these, Franklin was the acknowledged centre, so regarded alike in America and in Europe—by his own countrymen and by foreign governments. The sole negotiator in Paris during the whole of this period, with the exception of a few months in its earlier and closing portions, he was called upon to meet with firmness, but yet with temper and prudence, the reluctant advances which events were forcing from England ; to preserve with France that difficult mean between a just sense of grateful obligation for essential and timely aid to his own country, and the candid maintenance and protection of that independence in her policy and conduct, which was required by her own position and the character of her institutions ; and, finally, to promote and place upon broad principles of national intercourse, the new relations to be made with other governments of Europe, who were to receive, not without some hesitation, the young and self-created republic, as their associate in the family of nations. All this he did with united sagacity, patriotism, firmness, justice and amenity ; and in a philanthropic spirit new in the language and provisions of treaties.

When the negotiations which were to terminate the war with the mother country drew towards their close, and he was joined in Paris by Adams and Jay, the colleagues whom Congress had united with him, he had already laid down the positions on which only peace was to be made, securing to America acknowledged independence, defining the boundaries of her territory in its fullest extent, providing for the continued use of the fisheries as it existed before the war, asserting the free navigation of the Mississippi, and placing trade on the most liberal footing of reciprocity. With what calm steadiness he adhered to these positions whilst acting alone ; with what firmness and ability he was upheld in them by the patriotic and vigorous statesmen who were finally joined with him, are among the memorable incidents of American history. If the commencement of the revolutionary contest was characterized by a fearless spirit, refusing, at every hazard, to submit to wrong ; its closing act also was at once so temperate yet so complete, as to present the spectacle, not always found in history, of a war begun from necessity, pursued with success, and closed without a demand susceptible of reproach.

All, however, that Franklin had desired was not achieved. He had cherished in his heart the hope that the day was come, when nations

would be willing to yield to impulses which individuals would be ashamed to controvert or resist. It is not among the least of Franklin's honors that, in an early stage of his unaided negotiations—acting from his own clear sense of right, and of the benefits which follow its observance, not less with nations than with men—he proposed, among the articles which he submitted to England, as the basis of peace, a mutual compact to exempt from hostile capture all vessels and their cargoes which might be engaged in peaceful commerce, and to prevent altogether the employment of private armed vessels as instruments of warfare. England rejected his proposition, but it remains a monument of his foresight and world-wide philanthropy, and signs are not wanting, in our own day, to show that it may yet become a corner stone in the intercourse of civilized governments.

When the treaty of peace with England was finally signed, Franklin had reached his seventy-seventh year. His great mission performed, he earnestly solicited the leave of Congress to return to America, that he might pass, in the repose of his family, the declining evening of his lengthened day. Anxious that his great and venerated name, and his enlightened judgment should still serve his country a little longer, in effecting the commercial treaties which it was yet their desire to form, Congress withheld for a time the permission that he sought ; and it was not until the summer of 1785, that he left Europe. His last public act, while there, was the most accordant with his sentiments that he could have been called on to perform. At his house in Passy, on the ninth of July, two days before his final departure, he placed his name to a treaty with Prussia, in which the principles he had so deeply at heart were acceded to by the wisest of the sovereigns of Europe. The public acts—performed almost at the same instant—with which Frederick closed his great career, were the ratification of the voluntary union he had accomplished among the States of Germany, and of a treaty with America, which, in the language of Franklin, was to promote “the interest of humanity, and diminish the occasions and the inducements of war.” In addition to the immunity of private property, the unimpeded pursuit of commerce in time of war, and the prohibition of privateers, this memorable treaty—the treaty of Franklin and of Frederick the Great—abolished blockades, exempted even contraband goods in private vessels from confiscation, protected the property by the flag, and stipulated for the security of prisoners of war from every species of hardship and oppression.

The passage of Franklin through France, and his reception in America, were spontaneous testimonies in one country and the other, from admiring and grateful people whom he had lived among and served. That the infirmities of age might not be aggravated by the fatigue of his journey from Paris to the coast, the easy litter of the Queen of France was offered for his use, and men of illustrious names tendered to him, as he passed along, the repose of their ancestral homes. When the vessel that bore him came in sight of Philadelphia, his friends crowded in boats to greet him ; he landed on the shore among a vast assembled throng ; and he was borne to his home, almost in their arms, amidst shouts of welcome, and peals of cannon, and ringing of bells.

Did age and service secure to him at last his longed for repose? His countrymen were unwilling to concede it. When he was once again in their midst, they could not deny themselves the benefit of his coveted counsels, the suggestions of his comprehensive spirit, and the influence of his regulated and benevolent patriotism. Though eighty years had silvered his locks, they had not weakened his intellect or chilled his heart. With the termination of the revolution, Pennsylvania was again to cultivate the arts of peace; her resources were to be developed; the obligations created by the exigencies of war were to be redeemed; the asperities of political conflicts were to be assuaged; the train of useful domestic legislation was to be resumed. What guide in such a path could be found like Franklin? He was invoked by the general voice to accept the post of President of the Commonwealth: he held it for a year; again and again he was unanimously re-elected; and at last, not age, but the provisions of the Constitution alone saved him from further service, and obliged his fellow-citizens to allow him to retire. These three years in the history of Pennsylvania are not indeed marked by thrilling events which excite the fancy or arouse the passions, but they exhibit, in a more than usual degree, with what rapidity and ease a popular government can enter upon the policy demanded by a new position. Under the guidance of Franklin, measures were adopted to regulate the finances, to redeem the obligations incurred during the war, to develop internal commerce by roads and navigation, and to regulate and improve the various branches of domestic administration. One measure especially secured his favor and exertions. A legislative act was passed to promote the use of the steamboat, invented by Fitch, and already tried upon the Delaware. Franklin had watched the experiment with characteristic interest, and did not hesitate to foretell its future usefulness; a prophecy destined to be realized in a few short years, with a success even beyond his expectations, by the more perfect invention of Fulton, another of Pennsylvania's sons.

There yet remained for Franklin one more duty to perform, in order to close the circle of patriotic usefulness and service. As it was the last, so was it, perhaps, the greatest in importance and benefit to his country. Among the earliest of his political efforts, he had sought, although then without success, the union of the colonies. When independence was declared, he had early framed and presented a plan of confederation among the states; but under circumstances that necessarily made it imperfect and incomplete. When he returned to America from France, it was among the most ardent of his wishes, that a more perfect union should be formed among the people and the States, which should secure for them a common government as a united people. "May God grant," said Filangieri, the generous and philosophic statesman of Italy, at the moment when Franklin was leaving Europe—"May God grant that your advanced age may not prevent you from strengthening, and perfecting, and placing upon an eternal foundation, the work that has been achieved by a just indignation, and by the valor of a great people, who are invoking blessings on your name."

When the convention, chosen to form a constitution, assembled, Vir-



ginia and Pennsylvania had deputed, at the head of their delegations, the two most illustrious of their sons. The common voice of their country placed them first, even among the men who formed that august assemblage. Though the position which Washington was called to fill, and the years and infirmities of Franklin, obliged them to leave to others its more active labors and discussions, yet, who can sufficiently estimate the value of their counsels and their life-long services ; and the influence of their tempers so calm, benevolent and patriotic, in soothing, in conciliating, in binding together, elements often discordant, and interests and feelings which local circumstances could not fail to make occasionally adverse ? Although no record now discloses to us the full extent of the dangers which more than once threatened a disastrous result, yet it is known that they were subdued, at periods the most anxious, by the personal influence of these admirable men. Especially, it is the crowning glory of the great career of Franklin, that in the darkest moment of difficulty and depression, on the question of fiercest conflict, the protection of the rights of states largely differing in extent, population and power, we owe to him the adoption of that feature which distinguishes the American government from all republics and confederacies that have gone before. It was his proposition, in the committee appointed to produce, if possible, conciliation and harmony, that, by a mutual and dependent stipulation, the votes of all the states should be equal in one branch of the legislature, and should be in proportion to population in the other. Perhaps it is not too much to say, that if the American union shall indeed continue, as its founders hoped and designed, to secure to ourselves and our posterity the blessings of liberty, it will be due to this wise provision, at once so simple, so adequate and so just. Fortunate old man !—to whom was granted the privilege of thus erecting for himself, a monument which shall endure as long as his country shall continue to be bound together, by the tie which it was the labor of his life to form.

At the age of eighty-two, Franklin was at last permitted to close the lengthened period of his public service. Yet the consenting voice of those among whom he had lived and among whom he was soon to die, continued to the last, to crown with daily and undiminished evidences of approbation, respect and honor, his latest as they had done his earliest years. A fame, long since justly won in this narrower sphere, had spread farther and wider as time had rolled on, and distant nations had now united to acknowledge, with ready justice, that the course of his life had been a lesson for mankind.

But beyond all this, far dearer to him than the tribute from the world abroad, perhaps even dearer than the tribute from those among whom he dwelt, was the touching language of him, who alone surpassed him in their common country's grateful love, and who saw with sadness the close, now fast approaching, of his usefulness on earth ; of him who could bestow no praise which was undeserved, as he was unable to withhold that which was sanctioned by his judgment, and rose spontaneously from his heart. Let me close the estimate I have ventured to express of the character and services of Franklin, with the words of Washington, as they were laid upon his couch, when he was suffering with the pain



of his last disease. "Would to God," are his touching expressions, "that your existence might close with as much ease to yourself, as its continuance has been beneficial to our country and useful to mankind; or if the united wishes of a free people, joined with the earnest prayers of every friend to science and humanity, could relieve the body from pains and infirmities, that you could claim an exemption on this score. But this cannot be, and you have within yourself the only resource to which we can confidently apply for relief, a philosophic mind. If to be venerated for benevolence, if to be admired for talents, if to be esteemed for patriotism, if to be beloved for philanthropy, can gratify the human mind, you must have the pleasing consolation to know that you have not lived in vain. And I flatter myself that it will not be ranked among the least grateful occurrences of your life to be assured, that, so long as I retain my memory, you will be recollected with respect, veneration and affection by your sincere friend."

These were the words of Washington. Memorable words which unite such names together at the close of life. And oh! how cheering to humanity is the thought, that they shall forever remain united, not by their own friendship only, not only by the respect and love of their own country, but by the consenting judgment of the world; that these two men, now so illustrious, but once so humble—the land-surveyor of Virginia and the printer of Pennsylvania—the widow's son and the self-relying apprentice boy—shall stand together on the pinnacle of worldly honor, the best and proudest proof that virtue, and generous love of our fellow-beings, and devotion of life and talents to their welfare, in sunshine or in storm, can secure a glory more exalted than has ever been won by conquerors or kings.



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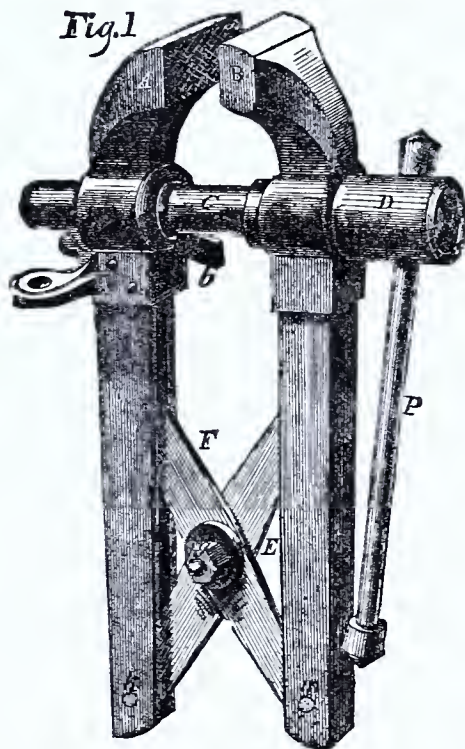
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*Fig.1*

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" " 1, " 3½ " " 3½ "	4 75
" " 2, " 4 " " 4½ "	8 00
" " 3, " 5 " " 6½ "	11 00



IRON, No. 4, Jaw 6 inches, opens 7 inches,	\$16 00
" " 5, " 7 " " 7½ "	22 00
WOOD, " 1, " " " " " "	5 50
" " 2, " " " " " "	6 00

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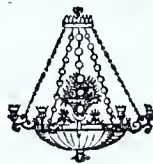
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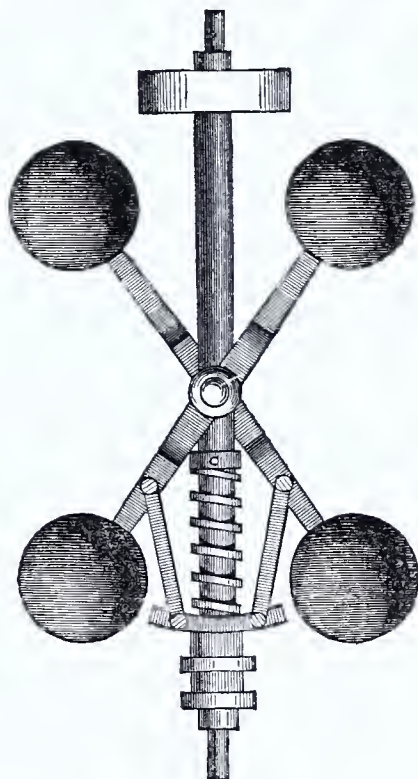
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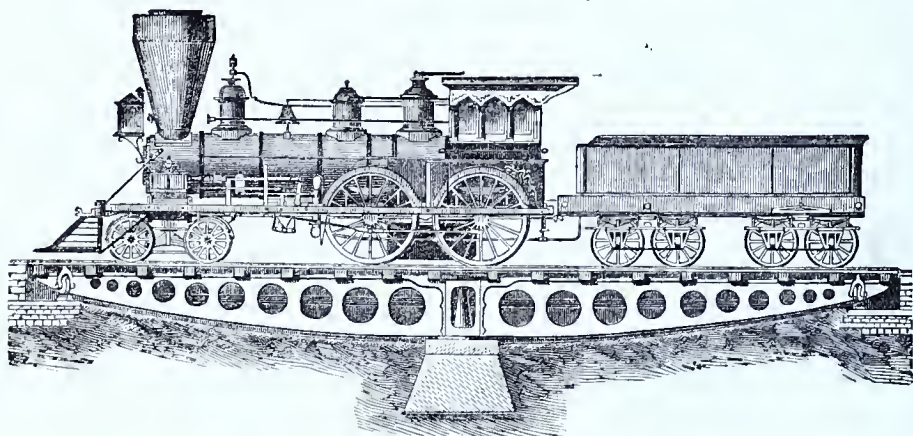
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